

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. Lease Designation and Serial No. UTU-65949																
b. Type of Well Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Coalbed Methane <input checked="" type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone <input type="checkbox"/>			6. If Indian, Allottee or Tribe Name N/A																
2. Name of Operator PG & E Resources Company			7. Unit Agreement Name N/A																
3. Address of Operator 303/452-8888 Permitco Inc. - Agent			8. Farm or Lease Name Federal																
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 1091' FSL and 1043' FEL At proposed prod. zone SE SE Sec. 15			9. Well No. #16-15																
14. Distance in miles and direction from nearest town or post office* 15 miles north of Price, UT			10. Field and Pool, or Wildcat Sec. 15, T12S - R10E																
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drilg. line, if any) approx. 1892'			11. Sec., T., R., M., or Blk. and Survey or Area Sec. 15, T12S - R10E																
16. No. of acres in lease 2560			12. County or Parrish Carbon																
17. No. of acres assigned to this well 160			13. State Utah																
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. approx. 2500'			19. Proposed depth 4475'																
20. Rotary or cable tools Rotary			21. Elevations (Show whether DF, RT, GR, etc.) 7780' GR																
22. Approx. date work will start* Immediately upon approval of this application			23. PROPOSED CASING AND CEMENTING PROGRAM																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Size of Hole</th> <th>Size of Casing</th> <th>Weight per Foot</th> <th>Setting Depth</th> <th>Quantity of Cement</th> </tr> </thead> <tbody> <tr> <td>12-1/4"</td> <td>8-5/8"</td> <td>24#</td> <td>500'</td> <td>350 sx or suffic to circ to surf.</td> </tr> <tr> <td>7-7/8"</td> <td>5-1/2"</td> <td>17#</td> <td>4475'</td> <td>425 sx or suffic to cover zones of interest.</td> </tr> </tbody> </table>					Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement	12-1/4"	8-5/8"	24#	500'	350 sx or suffic to circ to surf.	7-7/8"	5-1/2"	17#	4475'	425 sx or suffic to cover zones of interest.
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7-7/8"	5-1/2"	17#	4475'	425 sx or suffic to cover zones of interest.															

PG & E Resources Company proposes to drill a well to 4475' to test the Blackhawk and Star Point Coals for coalbed methane. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

Bond coverage for this well is provided under Bond No. 8063-38-07 and 8057-26-00.

RECEIVED

AUG 21 1992

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production and location of new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed <u>Lisa J. Smith</u>		Consultant for PG & E Resources Company		Date 8/19/92
(This space for Federal or State office use)		Title		APPROVED BY THE STATE
Permit No. <u>13 007-39176</u>		Approval Date		OF UTAH DIVISION OF
Approved by		Title		OIL, GAS, AND MINING
Conditions of approval, if any:		DATE: <u>9/18/92</u>		<u>Matthew</u>
				<u>649-3-3</u>

OIL GAS & MINING

DIVISION OF

(G.L.O.)

AUG 21 1992

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T12S, R10E, S.L.B.&M.

N88°27'W - 80.03 (G.L.O.)

N0°02'E - 41.85 (G.L.O.)

15

N0°10'W - G.L.O. (Basis of Bearings)
2531.35' (Measured)

#16-15 FEDERAL

Elev. Ungraded Ground = 7780'

1091'
1043'

S88°42'07"E - 2618.39' (Meas.)

S88°18'09"E - 2935.24' (Meas.)

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

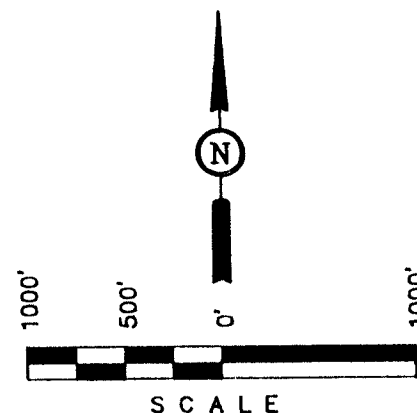
▲ = SECTION CORNERS LOCATED. (Brass Caps)

PG&E RESOURCES COMPANY

Well location, #16-15 FEDERAL, located as shown in the SE 1/4 SE 1/4 of Section 15, T12S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

BENCH MARK LOCATED IN THE NE 1/4 OF SECTION 10, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7131 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

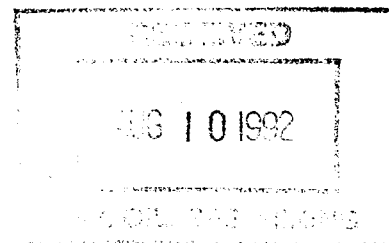
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 7-20-92	DATE DRAWN: 7-23-92
PARTY D.A. D.S. J.L.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE PG&E RESOURCES	



August 6, 1992

Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Tammi Searing

Re: PG & E Resources Company
Castlegate Prospect
Application for Temporary Change
of Water
Carbon County, Utah

Dear Tammi,

Enclosed please find one copy of the Application for Temporary Change of Water for PG & E's Castlegate Prospect in Carbon County, Utah.

As you know, several Applications for Permit to Drill have already been submitted and several additional applications will be forthcoming.

In future applications I will reference the Change Application Number (t92-91-12 (91 Area), rather than send additional copies of this application.

If you should need additional information, please feel free to contact me.

Sincerely,

PERMITCO INC.

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources - Dallas, TX
PG & E Resources - Vernal, UT

Permitco Incorporated
A Petroleum Permitting Company

13585 Jackson Drive Denver, Colorado 80241 (303) 452-8888



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangertor, Governor
Dae C. Hansen, Executive Director
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

July 31, 1992

West Hazmat Oil Field Services Inc.
Attn: Dale Price
East Highway 40
Roosevelt, Utah 84066

Re: Temporary Change Application #t92-91-12
Expiration Date: November 30, 1992

Dear Mr. Price:

The above referenced Temporary Change Application is hereby approved, and a copy is enclosed for your information and records.

If you have any questions, please feel free to contact me.

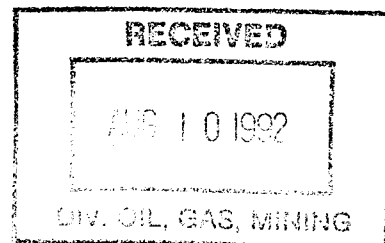
Sincerely,

William A. Wermack

for Mark P. Page
Regional Engineer

cc: Bob Davis - Price River Commissioner

Enclosures
MPP/mjk



APPLICATION FOR TEMPORARY CHANGE OF WATER

AUG 10 1992

DIV. OIL, GAS, MINING

STATE OF UTAH

WATER RIGHTS

Rec. by _____

Fee Paid \$ _____

Receipt # _____

Microfilmed _____

Roll # _____

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

*WATER RIGHT NO. 91 Area _____ *APPLICATION NO. 92 91 12

Changes are proposed in (check those applicable)

☒ point of diversion. ☒ place of use. ☒ nature of use. ☒ period of use.

1. OWNER INFORMATION

Name: West Hazmat Oil Field Services Inc. *Interest: _____%

Address: East Highway 40

City: Roosevelt State: Utah Zip Code: 84066

2. *PRIORITY OF CHANGE: July 31, 1992 *FILING DATE: July 31, 1992

Is this change amendatory? (Yes/No): No

3. RIGHT EVIDENCED BY: 91-366, Cert. #a229, Morse Decree First Class

Prior Approved Temporary Change Applications for this right: t91-91-09; t92-91-03; t92-91-04;
t92-91-05; t92-91-09; t92-91-10.

***** HERETOFORE *****

4. QUANTITY OF WATER: 7.98 cfs and/or _____ ac-ft.

5. SOURCE: Price River

6. COUNTY: Carbon

7. POINT(S) OF DIVERSION: _____
S. 560 ft. & E. 680 ft. from N $\frac{1}{4}$ Cor. Sec. 1, T14S, R9E, SLB&M.

Description of Diverting Works: Concrete diversion dam, earthen ditches

8. POINT(S) OF REDIVERSION

The water has been rediverted from _____ at a point: _____

Description of Diverting Works: _____

9. POINT(S) OF RETURN

The amount of water consumed is 7.98 cfs or _____ ac-ft.

The amount of water returned is _____ cfs or _____ ac-ft.

The water has been returned to the natural stream/source at a point(s): _____

*These items are to be completed by the Division of Water Rights.

Temporary Change

10. NATURE AND PERIOD OF USE

Irrigation: From march 1 to November 30
Stockwatering: From _____ to _____
Domestic: From _____ to _____
Municipal: From _____ to _____
Mining: From _____ to _____
Power: From _____ to _____
Other: From _____ to _____

11. PURPOSE AND EXTENT OF USE

Irrigation: 12,576.07 acres. Sole supply of 488.10 acres.

Stockwatering (number and kind): _____

Domestic: _____ Families and/or _____ Persons.

Municipal (name): _____ Mining District in the _____ Mine.

Mining: _____ Ores mined: _____ Type: _____ Capacity: _____

Power: Plant name: _____

Other (describe): _____

12. PLACE OF USE

Legal description of place of use by 40 acre tract(s): Carbon Canal Delivery System

13. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres.

Height of dam: _____ feet.

Legal description of inundated area by 40 tract(s): _____

***** THE FOLLOWING CHANGES ARE PROPOSED *****

14. QUANTITY OF WATER: _____ cfs and/or 13.0 ac-ft.

15. SOURCE: 1) Willow Creek 2) Underground Exploratory Wells

Balance of the water will be abandoned: _____, or will be used as heretofore: X

16. COUNTY: Carbon

17. POINT(S) OF DIVERSION: See Attached Sheet

Description of Diverting Works: 1) Portable pump to tank truck 2) Existing 5 1/2" casing,
10 miles NE of Helper 4425 to 4667 feet deep
Matts Summit Quad

18. POINT(S) OF REDIVERSION

The water will be rediverted from _____ at a point: _____

Description of Diverting Works: _____

19. POINT(S) OF RETURN

The amount of water to be consumed is _____ cfs or 13.0 ac-ft.

The amount of water to be returned is _____ cfs or _____ ac-ft.

The water will be returned to the natural stream/source at a point(s): _____

-20. NATURE AND PERIOD OF USE

Irrigation: From ___/___/___ to ___/___/___
Stockwatering: From ___/___/___ to ___/___/___
Domestic: From ___/___/___ to ___/___/___
Municipal: From ___/___/___ to ___/___/___
Mining: From ___/___/___ to ___/___/___
Power: From ___/___/___ to ___/___/___
Other: From 7/31/92 to 11/30/92

21. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons.
Municipal (name): _____ Mining District at the _____ Mine.
Mining: _____
Ores mined: _____ Type: _____ Capacity: _____
Power: Plant name: _____
Other (describe): Exploration drilling, road construction, dust suppression

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s): See Attached Sheet

23. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____
Capacity: _____ ac-ft. Inundated Area: _____ acres.
Height of dam: _____ feet.
Legal description of inundated area by 40 tract(s): _____

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary):
This Temporary Change Application is being filed to replace t91-91-09 & t92-91-10 to correct the points of diversion and place of use. To date approximately 0.77 AF has been utilized under t91-91-09.

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Dale Price
Signature of Applicant(s)

West Hazmat Oil Field Services Inc.
Temporary Change Application
#t92-91-12 (91 Area)
July 31, 1992

#17 Points of Diversion:

Willow Creek:
N. 320 ft. & W. 290 ft. from SE Cor. Sec. 3, T12S, R20E, SLB&M.

Shimmin Trust Wells:

Shimmin Trust #1: N. 793 ft. & W. 780 ft. from SE Cor. Sec. 11;
Shimmin Trust #2: S. 1980 ft. & W. 800 ft. from NE Cor. Sec. 14;
Shimmin Trust #3: S. 1980 ft. & E. 1780 ft. from NW Cor. Sec. 14;
Shimmin Trust #4: N. 540 ft. & E. 1900 ft. from SW Cor. Sec. 11;
Shimmin Trust #5: S. 660 ft. & W. 2340 ft. from NE Cor. Sec. 14;
all T12S, R10E, SLB&M.

#22 Place of Use:

1210-0806: S. 2400 ft. & E. 1769 ft. from NW Cor. Sec. 8 (SE4NW4)
#7-9 Federal: S. 2109 ft. & W. 2038 ft. from NE Cor. Sec. 9 (SW4NE4)
#4-15 Federal: S. 660 ft. & E. 450 ft. from NW Cor. Sec. 15 (NW4NW4)
#4-13 Federal: S. 1174 ft. & E. 1168 ft. from NW Cor. Sec. 13 (NW4NW4)
#9-10 Jensen: N. 2500 ft. & W. 1020 ft. from SE Cor. Sec. 10 (NE4SE4)
#2-16 State: S. 780 ft. & W. 1971 ft. from NE Cor. Sec. 16 (NW4NE4)
#9-16 State: N. 1993 ft. & W. 702 ft. from SE Cor. Sec. 16 (NE4SE4)
#11-10 Jensen: N. 1650 ft. & E. 1650 ft. from SW Cor. Sec. 10 (NE4SW4)
#5-10 Jensen: S. 1680 ft. & E. 660 ft. from NW Cor. Sec. 10 (SW4NW4)
#16-10 Jensen: N. 330 ft. & W. 330 ft. from SE Cor. Sec. 10 (SE4SE4)
#7-15 Jensen: S. 1650 ft. & W. 1650 ft. from NE Cor. Sec. 15 (SW4NE4)
#11-11 Shimmin Trust: N. 2350 ft. & E. 1500 ft. from SW Cor. Sec. 11 (NE4SW4)
#10-11 Shimmin Trust: N. 2300 ft. & W. 1850 ft. from SE Cor. Sec. 11 (NW4SE4)
#12-12 Shimmin Trust: N. 2310 ft. & E. 990 ft. from SW Cor. Sec. 12 (NW4SW4)
#14-12 Shimmin Trust: N. 660 ft. & E. 1980 ft. from SW Cor. Sec. 12 (SE4SW4)
#11-15 Jensen: N. 1850 ft. & E. 1650 ft. from SW Cor. Sec. 15 (NE4SW4)
#16-9 Jensen: N. 1150 ft. & W. 1150 ft. from SE Cor. Sec. 9 (SE4SE4)
#16-15 Federal: N. 990 ft. & W. 990 ft. from SE Cor. Sec. 15 (SE4SE4)
#14-14 Federal: N. 990 ft. & E. 1650 ft. from SW Cor. Sec. 14 (SE4SW4)
#14-16 Federal: N. 990 ft. & W. 990 ft. from SE Cor. Sec. 14 (SE4SE4)
#14-13 Federal: N. 990 ft. & E. 1650 ft. from SW Cor. Sec. 13 (SE4SW4)
All T12S, R10E, SLB&M.

Alternate Wells:

#12-9 Jensen: N. 2054 ft. & E. 592 ft. from SW Cor. Sec. 9 (NW4SW4)
#14-9 Jensen: N. 675 ft. & E. 2170 ft. from SW Cor. Sec. 9 (SE4SW4)
#4-16 State: S. 922 ft. & E. 750 ft. from NW Cor. Sec. 16 (NW4NW4)
#11-16 State: N. 1980 ft. & E. 1980 ft. from SW Cor. Sec. 16 (NE4SW4)
All T12S, R10E, SLB&M.

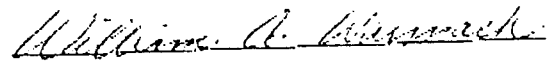
STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t92-91-12

1. July 31, 1992 Change Application received by BW.
2. July 31, 1992 Application designated for APPROVAL by MP.
3. Comments:

Conditions:

This application is hereby APPROVED, dated July 31, 1992, subject to prior rights and this application will expire on November 30, 1992.



for Mark Page, Area Engineer
for
Robert L. Morgan, State Engineer



September 18, 1992

Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
Attn: Tammi Searing

Re: PG & E Resources Company
#16-15 Federal
1091' FSL and 1043' FEL
SE SE Sec. 15, T12S - R10E
Carbon County, Utah

Dear Tammi,

This letter is to serve as our request for an exception to spacing on the above mentioned location.

The above location was staked at non-standard footages in accordance with the rules and regulations of the Division of Oil, Gas & Mining, however, PG & E Resources Company is the lease holder of all acreage within Sections 14 and 15 surrounding the proposed location. Therefore, we request administrative approval for this exception location.

Thank you for your cooperation.

Sincerely,

PERMITCO INC.

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources - Dallas, TX
PG & E Resources - Vernal, UT

Permitco Incorporated
A Petroleum Permitting Company

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)

3. APPROXIMATE DATE PROJECT WILL START:
Upon approval

4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments

5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition
☐ Land Sale ☐ Land Exchange ☐ Other _____

6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill

7. PG & E Resources Company, proposes to drill the Federal #16-15 well (wildcat) on federal lease UTU-65949 in Carbon County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S. Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.

8. LAND AFFECTED (site location map required) (indicate county)
SE/4 SE/4, Section 15, Township 12 South, Range 10 East, Carbon County, Utah

9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?

10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
See Attachment

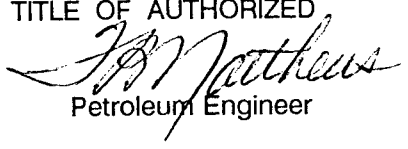
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:

12. FOR FURTHER INFORMATION, CONTACT:

Frank R. Matthews
PHONE: 538-5340

13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL:

DATE: 8/26/92


Petroleum Engineer

WOI187

CONFIDENTIAL - TIGHT HOLE

ONSHORE OIL & GAS ORDER NO. 1

**Approval of Operations on Onshore
Federal and Indian Oil & Gas Leases**

**#16-15 Federal
1091' FSL and 1043' FEL
SE SE Sec. 15, T12S - R10E
Carbon County, Utah**

Prepared For:

P G & E RESOURCES COMPANY

By:

**PERMITCO INC.
13585 Jackson Drive
Denver, Colorado 80241
303/452-8888**

Copies Sent To:

- 3 - BLM - Moab, Utah**
- 1 - BLM - Price, UT**
- 1 - Utah Division of Oil, Gas & Mining - SLC, UT**
- 3 - PG & E Resources - Dallas, TX**
- 1 - PG & E Resources - Vernal, Utah**

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**DIVISION OF
OIL GAS & MINING**




Permitco Incorporated
A Petroleum Permitting Company

June 1, 1992

Bureau of Land Management

RE: Designation of Agent Authority

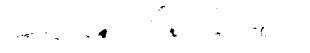
 Gentlemen:

Please be advised that Permitco, Inc. is hereby delegated authority to act as Agent on behalf of PG&E Resources Company and is authorized to execute any County, State and Federal permit applications and other related regulatory documents.

This authority is to remain in effect until further notification.

Should you have any questions regarding this issue, please contact the undersigned.

Sincerely,


Jim LaFevers
Regulatory Affairs Supervisor

JL\ap

wp51\jl\design.agt

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AUG 21 1992

DIVISION OF
OIL GAS & MINING

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DIVISION OF
OIL GAS & MINING



Permitco Incorporated
A Petroleum Permitting Company

ONSHORE ORDER NO. 1
PG & E Resources Company
#16-15 Federal
1091' FSL and 1043' FEL
SE SE Sec. 15 T12S - R10E
Carbon County, Utah

CONFIDENTIAL - TIGHT HOLE

DRILLING PROGRAM

Page 1

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Flagstaff	Surface	
Price River	2429	+5386'
Castlegate	2961'	+4854'
Blackhawk	3257'	+4558'
Kenilworth (S.P. I)	3951'	+3864'
Aberdeen (S.P. II)	4165'	+3650'
T.D.	4475'	

2. The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Coal Gas	Blackhawk	3257'
Coal Gas	Star Point	3951-4165'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

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DIVISION OF
OIL GAS & MINING



Permitco Incorporated
A Petroleum Permitting Company

All water shows and water-bearing sands will be reported to the BLM in Moab, Utah. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

3. PG & E's minimum specifications for pressure control equipment are as follows:

Ram Type: 10" Hydraulic double, 2000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

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Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request. Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The Price River Resource Area Office shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 11", 2000 psi working pressure blowout preventor.
- b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.

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- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
 - d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.
- 4.
- a. The Price River Resource Area Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.
 - b. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.
 - c. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).
 - d. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)
 - e. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
 - f. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

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- g. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.
- h. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.
- i. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.
- j. Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.
- k. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- l. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- m. On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

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1091' FSL and 1043' FEL
SE SE Sec. 15 T12S - R10E
Carbon County, Utah

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- n. The proposed casing program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>New or Used</u>
Surface	0-500'	12-1/4"	8-5/8"	24#	K-55	ST&C	New
Produc.	0-4475'	7-7/8"	5-1/2"	17#	N-80	LT&C	New

- o. Casing design subject to revision based on geologic conditions encountered.

- p. The cement program will be as follows:

Surface
0-500'

Type and Amount

Cement to surface with 350 sx
Premium Cement + 2% CaCl₂ + 0.25
lb/sk Flocele (or equivalent).

Production

Type and Amount

Two stage cement to surface with
stage tool at 3200'. First Stage: 225
sx 50/50 Pozmix + 2% Gel + 0.25 %
Flocele. Second Stage: 200 sx Silica
Lite + 4% Gel + 4% CaCl₂.

- q. The Price River Resource Area Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.
- r. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.
- s. The following reports shall be filed with the District Manager within 30 days after the work is completed.

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1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:
 - a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
 - b. Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.
- t. Auxiliary equipment to be used is as follows:
 1. Kelly cock
 2. No bit float is deemed necessary.
 3. A sub with a full opening valve.
5. a. The proposed circulating mediums to be employed in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-500'	Air/Spud Mud	8.4-9.0	32-50	N/C	8.0-9.0
500-3300'	FW/Gel Sweeps	8.4-8.8	28-32	N/C	8.0-9.0
3300-4475'	FW-LSND	8.6-9.0	34-45	10-15	8.0-9.0

There will be sufficient mud on location to control a blowout should one occur.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.

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- b. Mud monitoring equipment to be used is as follows:
 - 1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.
 - c. Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing or completion operations.
6. The anticipated type and amount of testing, logging and coring are as follows:
- a. No drill stem tests are anticipated, however, if DST's are run, the following requirements will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.
 - b. The logging program will consist of a Cased Hole Dual Spaced Neutron w/Gamma Ray, 2" & 5" from T.D. to base of surface casing. An Acoustic CBL/CCL will be run (5") from T.D. to base of surface casing.
 - c. No cores are anticipated.

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- d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).
 - e. The anticipated completion program is as follows:

Perforate and fractures zones of interest and place on pump.
7. a. The expected bottom hole pressure is 1942 psi.
- b. No hydrogen sulfide gas is anticipated.
8. a. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.
- b. Production data shall be reported to the MMS pursuant to 30 CFR 216.5 using form MMS/3160.
- c. The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which gas is first measured through permanent metering facilities, whichever first occurs.

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- d. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.
- e. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.
- f. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 and Onshore Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- g. Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

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- h. Drilling will commence immediately upon approval of this application.
- i. It is anticipated that the drilling of this well will take approximately 16 days.
- j. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.
- k. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- l. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- m. Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- n. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

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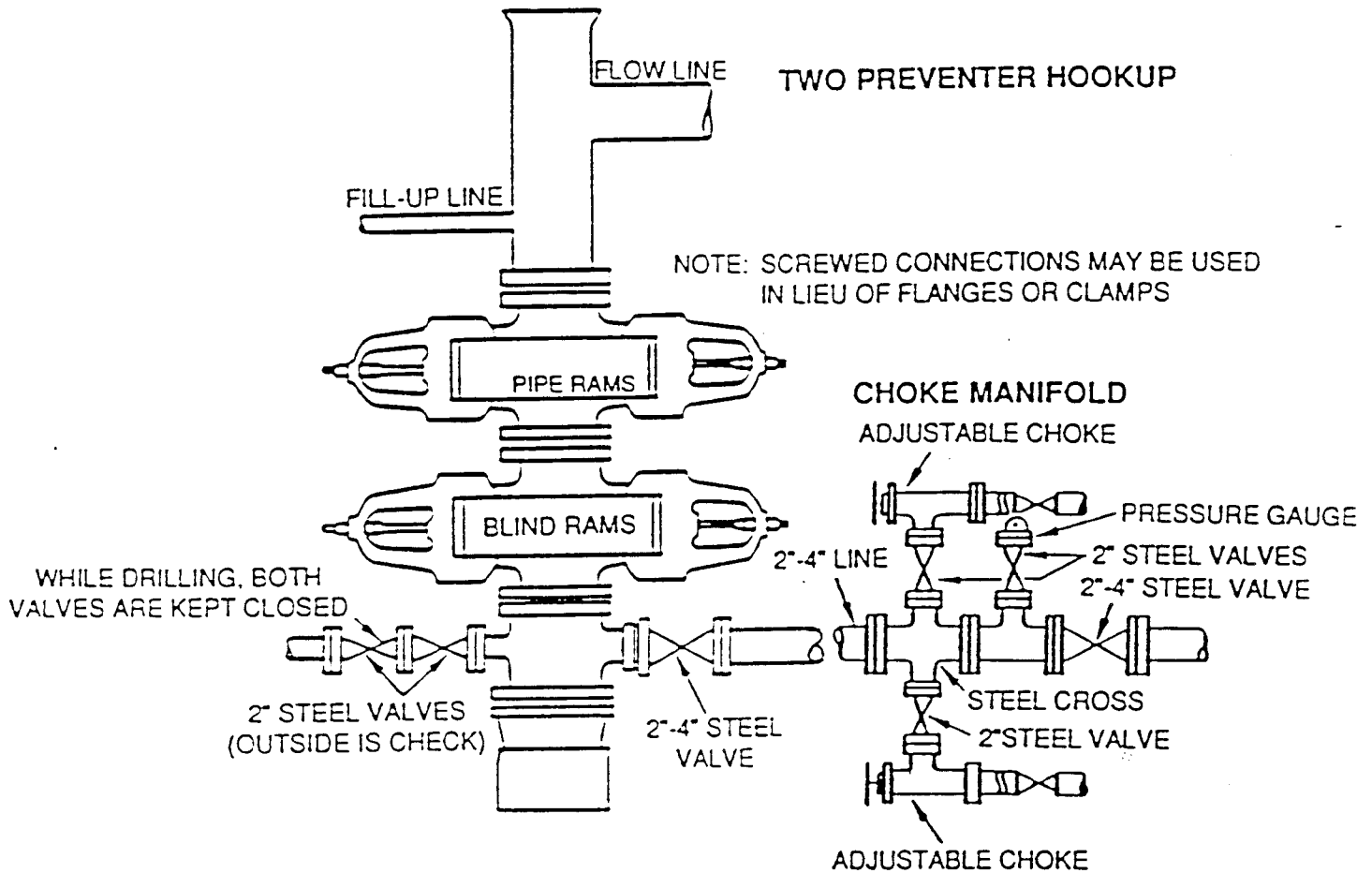
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TYPICAL 2,000 PSI BLOWOUT PREVENTER SCHEMATIC



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ONSHORE OIL & GAS ORDER NO. 1

Thirteen Point Surface Use Plan

1. Existing Roads

- a. The proposed well site is located approximately 15 miles north of Price, Utah.
- b. Directions to the location from Price, Utah are as follows:

From Price proceed north on Highway 6 for 9.0 miles. Turn right onto Highway 33 and proceed northeasterly for 6.3 miles. Turn right onto a county road and proceed west for 0.7 miles. Turn south onto an existing oilfield road and proceed 1.4 miles. Proceed south onto new access route (flagged) and continue an additional 0.9 miles to the location.
- c. For location of access roads within a 2-Mile radius, see Maps A & B.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

2. Planned Access Roads

- a. There will be approximately 0.9 miles of new access road to be constructed. The access will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.
- b. The maximum grade will be 8%.

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- c. No turnouts are planned.
 - d. Culverts will be installed as determined necessary by the dirt contractor and operator.
 - e. The access road was centerline flagged at the time of staking.
 - f. Surfacing material may be necessary depending on weather conditions, however, none is anticipated at this time.
 - g. No cattleguards will be necessary.
 - h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. (See Map #B).
- a. Water wells -none
 - b. Injection wells -none
 - c. Producing wells - one
 - d. Drilling wells - none
4. Location of Tank Batteries and Production Facilities.
- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a neutral color to blend with the surrounding environment. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

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- b. If storage facilities/tank batteries are constructed on this lease, the facility/battery or the wellpad shall be surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
- c. All loading lines will be placed inside the berm surrounding the tank battery.
- d. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- e. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.
- f. A Sundry Notice will be submitted showing placement of all production facilities prior to construction.
- g. Any necessary pits will be properly fenced to prevent any wildlife entry.
- i. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- j. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the Authorized Officer.
- k. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.

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- l. The road will be maintained in a safe useable condition.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from the following existing production pits:
 - 1) N 540' E 1900' from SW cor., Sec. 11, T12S - R10E
 - 2) N 793' W 780' from SE cor., Sec. 11, T12S - R10E
 - 3) S 1980' E 1780' from NW cor., Sec. 14, T12S - R10E
 - 4) S 660' W 2340' from NE cor., Sec. 14, T12S - R10E
 - 5) S 1980' W 800' from NE cor., Sec. 14, T12S - R10E
- b. Water will be hauled to location over the roads marked on Maps A and B.
- c. No water well is to be drilled on this lease.
- d. A copy of the approved water permit is on file with the Division of Water Rights in Price, Utah. (t92-91-12).

6. Source of Construction Material

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a private or commercial source.
- c. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.
- d. No construction materials will be removed from Federal land.

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7. Methods of Handling Waste Disposal

- a. The reserve pit will be constructed so as not to leak, break, or allow discharge. The reserve pit will be lined if determined necessary at the time of construction.
- b. If the pit is lined, a plastic nylon reinforced liner will be used. It will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.
- c. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.
- d. After first production, produced waste water will be confined to a unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.
- e. Drill cuttings are to be contained and buried in the reserve pit.
- f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- g. Sewage will be placed in a portable chemical toilet or holding tank and disposed of in accordance with state and county regulations.
- h. The produced fluids (other than water) will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.

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8. Ancillary Facilities

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. The reserve pit will be located on the south side of the location.
- b. The stockpiled topsoil (first six inches) will be stored along the perimeter of the location as shown on the rig layout.
- c. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- d. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
- e. During construction, all brush will be removed from the wellpad and access road and stockpiled separately from the topsoil.
- f. All pits will be fenced to prevent wildlife entry.
- g. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

10. Plans for Restoration of Surface

Producing Location

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.

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- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- c. If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.
- d. Once the reserve pit is dry, the reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.
- e. The location will be reclaimed and reseeded as per the surface owner's request.

Dry Hole

- f. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment.

11. Surface Ownership

Access Roads - All roads are County maintained or private surface.

Wellpad - The well pad is located on lands owned by Melvin & Mary Fransen, 530 S. 100 W., American Fork, UT 84003.

12. Other Information

- a. A Class III archeological survey was conducted by Sagebrush Archeological Consultants. No significant cultural resources were found and clearance has been recommended. A copy of this report is attached.
- b. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during

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SURFACE USE PLAN

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construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and

-a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- c. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- d. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
- e. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.h.

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SE SE Sec. 15, T12S - R10E
Carbon County, Utah

CONFIDENTIAL - TIGHT HOLE

SURFACE USE PLAN
Page 9

- f. "Sundry Notice and Report on Wells" (From 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- g. This permit will be valid for a period of one year from the date of approval. An extension period may be granted, if requested, prior to the expiration of the original approval period.
- h. The operator or his contractor shall contact the BLM Offices at 801/977-4300 48 hours prior to construction activities.

13. Lessee's or Operator's Representative and Certification

Permit Matters
PERMITCO INC.
Lisa L. Smith
13585 Jackson Drive
Denver, CO 80241
303/452-8888

Drilling & Completion Matters
PG & E Resources Company
6688 N. Central Expressway
Suite 1000
Dallas, TX 75206
214/750-3800 - (W) George Taylor
214/233-5640 - (H)
801/789-4573 - (W) Mike McMican

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by PG & E Resources Company and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING



Permitco Incorporated
A Petroleum Permitting Company

ONSHORE ORDER No. 1
PG & E Resources Company
#16-15 Federal
1091' FSL and 1043' FEL
SE SE Sec. 15, T12S - R10E
Carbon County, Utah

CONFIDENTIAL - TIGHT HOLE

SURFACE USE PLAN
Page 10

This statement is subject to the provisions of 18.U.S.C. 1001 for the filing of a false statement.

August 19, 1992
Date:

Lisa L. Smith
Lisa L. Smith - PERMITCO INC.
Authorized Agent for:
PG & E Resources Company

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AUG 26 1992

DIVISION OF
OIL GAS & MINING



Permitco Incorporated
A Petroleum Permitting Company

Lease No. UTU-65949

Well: #16-15 Federal

I certify that PG & E Resources Company has reached an agreement with Melvin & Mary Fransen as to the requirements for the protection of surface resources and reclamation of disturbed areas and/or damages in lieu thereof. If an agreement has not been reached, PG & E Resources Company will comply with the provisions of the law or regulations governing the Federal or Indian right of reentry to the surface (43 CFR 3814).

8/19/92
Date

Lisa L. Smith
Operator Representative
Lisa L. Smith - PERMITCO INC.
Authorized Agent for:
PG & E Resources Company

RECEIVED

AUG 26 1992

DIVISION OF
OIL GAS & MINING

ONSHORE ORDER NO. 1
PG & E Resources Company
#16-15 Federal
1091' FSL and 1043' FEL
SE SE Sec. 15, T12S - R10E
Carbon County, Utah

CONFIDENTIAL - TIGHT HOLE

SURFACE USE PLAN

Page 10

This statement is subject to the provisions of 18.U.S.C. 1001 for the filing of a false statement.

August 19, 1992
Date:

Lisa L. Smith
Lisa L. Smith - PERMITCO INC.
Authorized Agent for:
PG & E Resources Company

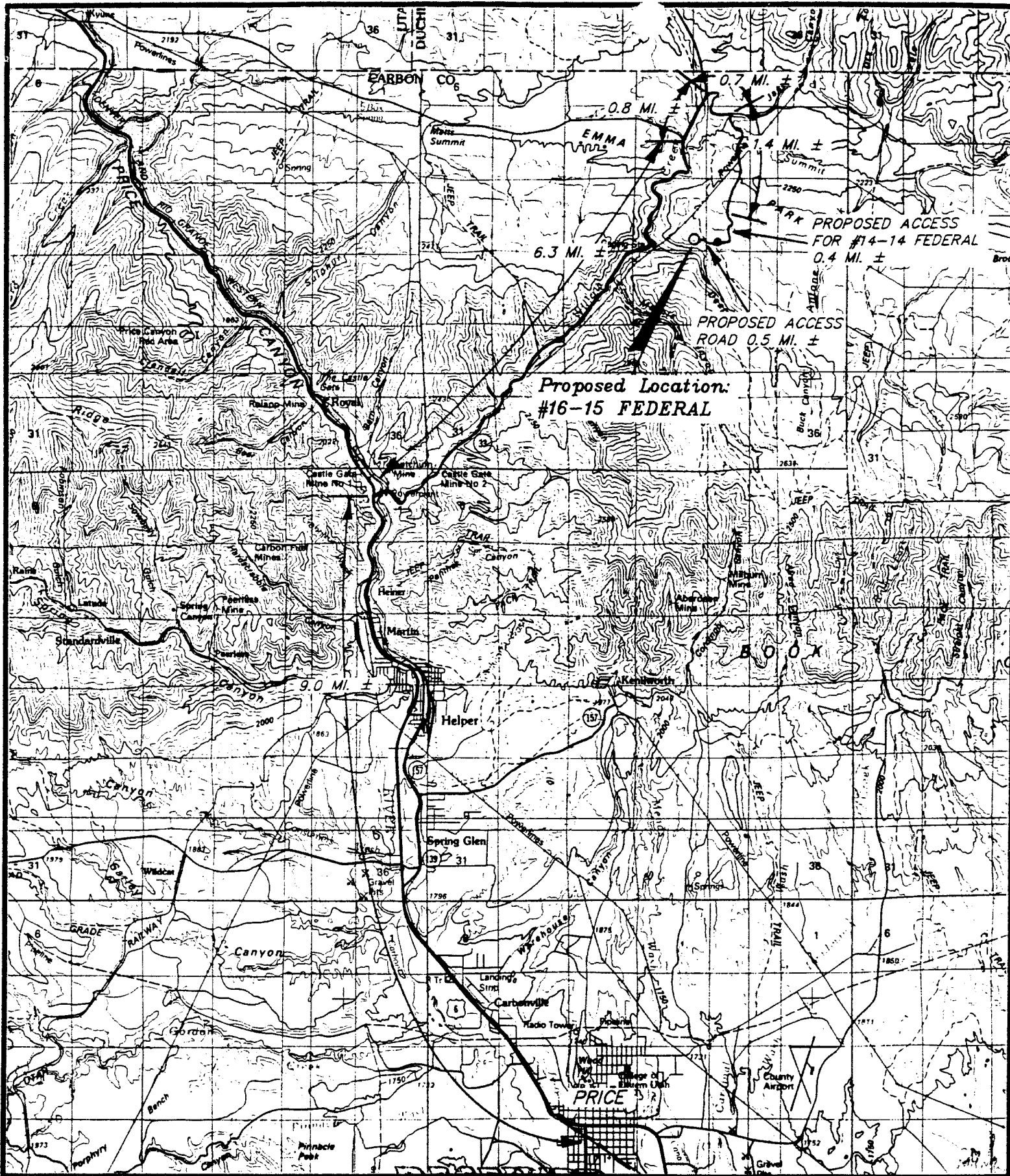
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AUG 21 1992

DIVISION OF
OIL GAS & MINING



Permitco Incorporated
A Petroleum Permitting Company



There are no federal stipulations at this time.

RECEIVED

AUG 21 1992

**DIVISION OF
OIL GAS & MINING**



Permitco Incorporated
A Petroleum Permitting Company

**A CULTURAL RESOURCES SURVEY OF
PG&E WELLS FEDERAL 16-15 and 14-14 AND ACCESS ROADS,
CARBON COUNTY, UTAH**

by

Michael R. Polk
Principal Investigator

Prepared for:

PG&E Resources Company
P.O. Box 25655
Dallas, Texas 75225

Prepared by:

Sagebrush Archaeological Consultants
3670 Quincy Avenue, Suite 203
Ogden, Utah 84403

Under Authority of Cultural Resources Use Permit No. 91-UT-54630

and

Utah State Antiquities Permit No. U-92-SJ-339b,p

Archaeological Report No. 549

August 5, 1992

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AUG 21 1992
DIVISION OF
OIL GAS & MINING

INTRODUCTION

In July 1992, PG&E Resources Company (PG&E) requested that Sagebrush Archaeological Consultants (Sagebrush) conduct a cultural resources inventory of two well locations and access roads for PG&E wells #16-15 Federal and #14-14 Federal in Carbon County, Utah. The well locations are located in T. 12S., R. 10E., S. 15 SE $\frac{1}{4}$ SE $\frac{1}{4}$ and S. 14 SE $\frac{1}{4}$ SW $\frac{1}{4}$. Footages for the well locations are as follows: #16-15 (1091' FSL, 1043' FEL); #14-14 (990' FSL, 1640' FWL). The access road segments surveyed are also located within S. 14 and 15. The project area lies on the 7.5' USGS Matts Summit, Utah Quadrangle (1969) on private surface lands with federal minerals ownership (Figure 1). The project was carried out by the author on July 23, 1992 under authority of Cultural Resources Use Permit No. 91-UT-54630 and Utah State Antiquities Permit No. U-92-SJ-339b,p.

A file search was carried out by Evie Seelinger of the State Historic Preservation Office (SHPO) in Salt Lake City on July 15, 1992 to determine if any cultural resources projects had been conducted or sites recorded in the project area. This also included a search of paleontological records. In addition, a file search was done by the author on July 22, 1992 at the Bureau of Land Management, Price Resource Area Office, prior to conducting the fieldwork.

One project has been undertaken in the vicinity of the present project area. In 1991 Metcalf Archaeological Consultants conducted an inventory of nine well pads and access roads for Cockrell Oil Corporation in the area. One of these wells lay in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of S. 15 with an access road extending into the center of S. 10 to the north. No sites were found during this inventory.

In addition to a search of previous projects and known sites, the National Register of Historic Places (NRHP) was consulted prior to conducting the survey. No Register sites were found to exist in the vicinity.

ENVIRONMENT

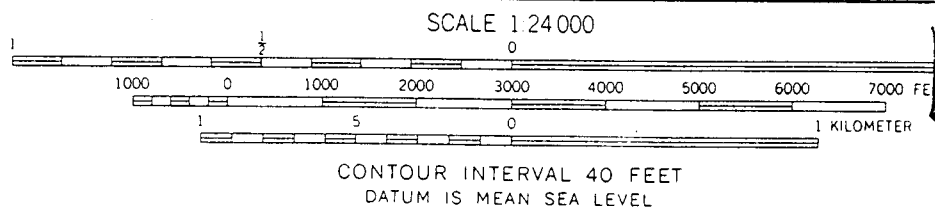
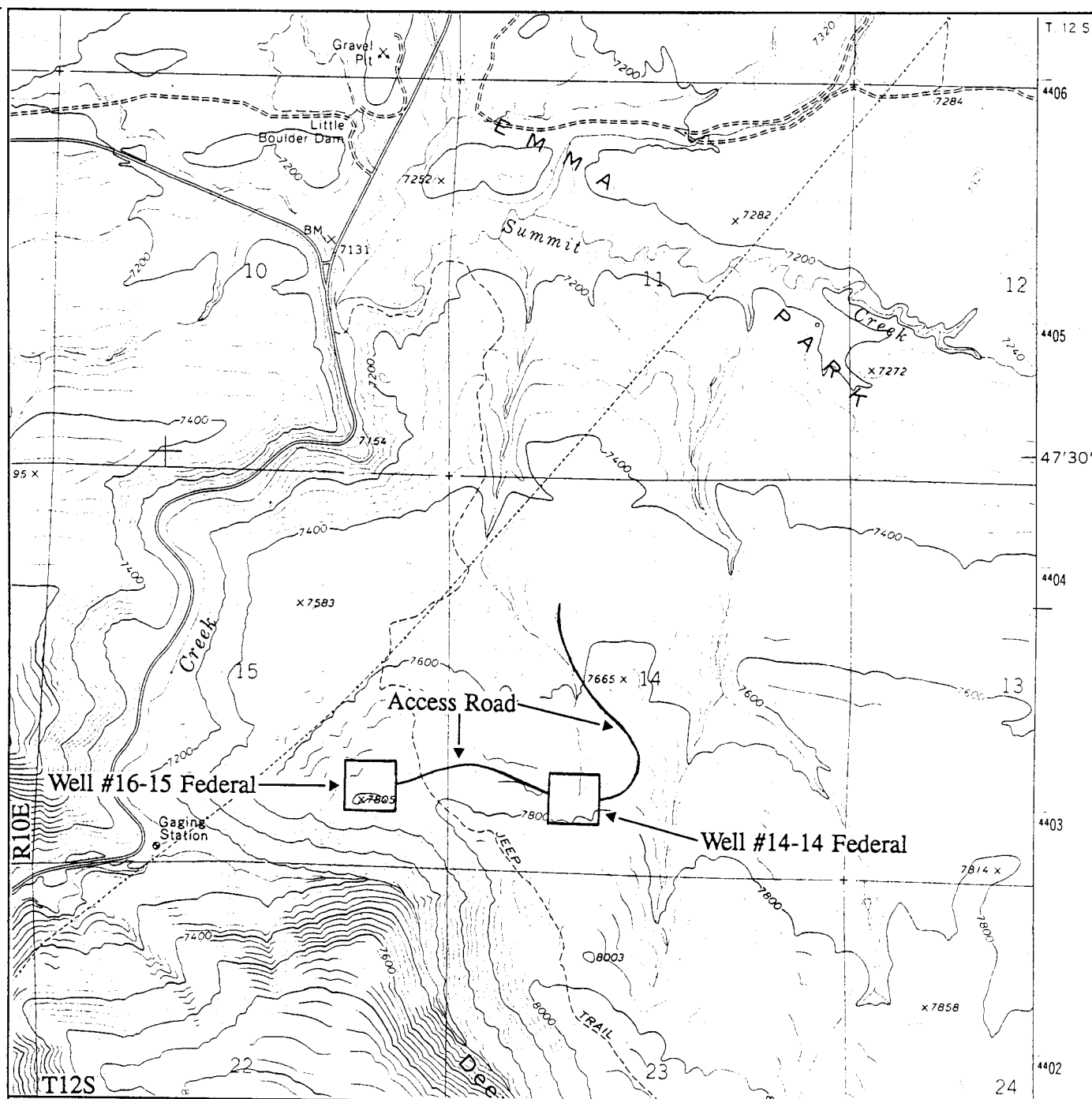
The well pads and access roads are located in moderately rugged and high topography on the south side of the west end of the Book Cliffs-Roan Plateau Region of the Colorado Plateau. The project location is on the south side of Emma Park Valley on moderately to steeply sloping terrain with some outcroppings of limestone bedrock. Sandstone boulders were also visible in places. Well #16-15 lies on the crest of a ridge which drops precipitously into a deep canyon to the south. The elevation of the area ranges from 7560 to 7800 feet a.s.l. Soils in the area are generally silts and silty clays. Vegetation cover ranges from 40 to 60 percent in a sagebrush-bunchgrass community. It includes sagebrush, bunchgrass, rabbitbrush, and groves of scrub oak, aspen, and several Douglas fir and a few juniper. The nearest permanent water source is Willow Creek, located about one half mile to the west.

Natural disturbance in the area includes sheetwash and some arroyo cutting. The northern portion of the 16-15 well is extremely eroded as a result of its steep slope. Cultural disturbance is confined to two track roads and fence lines.

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Figure 1. Locations of PG&E Resources wells Federal #16-15 and Federal #14-14 with access roads. Taken from: USGS 7.5 Quadrangle Matts Summit, Utah (1969).

METHODOLOGY

The survey area covered during this project consists of two 10 acre parcels of land centered on the well heads and proposed access road corridors connecting the well locations to existing roads. The well pad areas were inventoried by the author in parallel transects spaced 15 meters apart. The access roads, which total 1.2 miles in length, were walked in two parallel transects to cover a corridor width of 100 feet (30 meters). The area surveyed on this project (including both well pads and access roads) totaled 34.54 acres.

RESULTS

No cultural or paleontological sites were found as a result of this inventory. This was probably due to the rugged nature of the terrain, the steep slopes and absence of immediate water sources.

RECOMMENDATIONS

Due to the absence of cultural and paleontological resources in the inventoried area, cultural clearance is recommended for the proposed project.

This investigation was conducted with techniques which are considered to be adequate for evaluating cultural and paleontological resources which could be adversely affected by the project. However, should such resources be discovered during construction, a report should be made immediately to the State Archaeologist, Antiquities Section, Division of State History, Salt Lake City.

RECEIVED

AUG 21 1992

DIVISION OF

Southeast District Health Dept.
P.O. Box 800
Price, UT 84501
801/637-3671

Operator PG & E Resources Company	Telephone 214/750-3800
Address 6688 N. Central Expressway, #1000 Dallas, TX 75206	Contact Jim LaFevers
Agent Permitco Inc.	Telephone 303/452-8888
Address 13585 Jackson Drive Denver, CO 80241	Contact Lisa L. Smith

Well Name and Number #16-15 Federal		
Legal Location 1091' FSL and 1043' FEL SE SE Sec. 15, T12S - R10E	County Carbon	State Utah


Proposed Facilities:

1) Holding Tank	Size 1500 gallon	Supplier Mtn. West Oilfield Services
2) Fresh Water Tank	Size 100 Bbl.	Supplier West Hazmat
3) Trash Cage		Supplier Mtn. West Oilfield Services
3) Porta-Toilets	# 2	Supplier Mtn. West Oilfield Services

4) Trailers/Living Facilities	# 2
5) Total Personnel Onsite	# 8

Proposed Spud Date: September 1, 1992
Attachments: Rig Layout Topographic Map

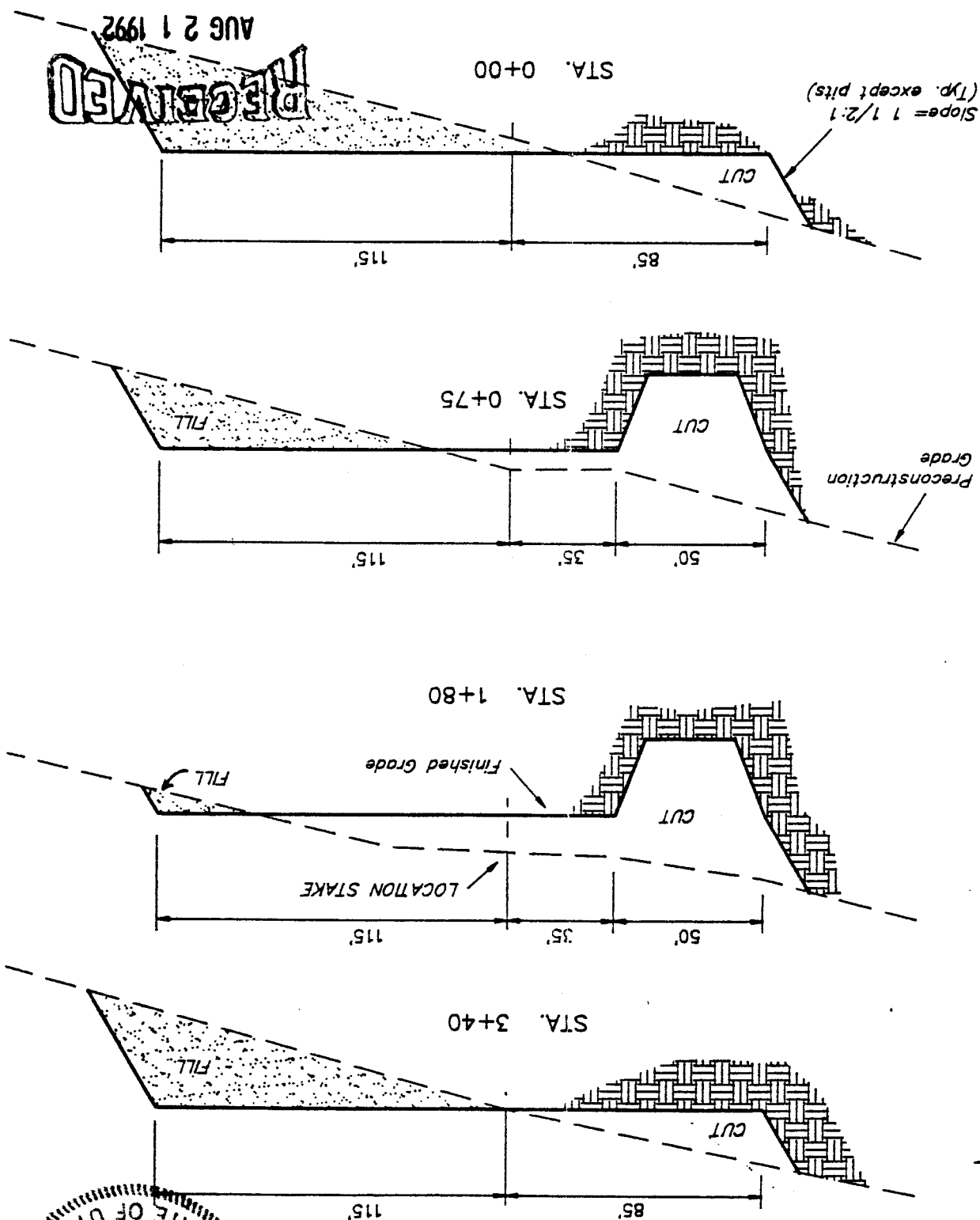
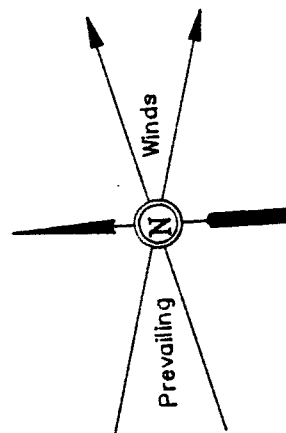
Comments:


RECEIVED
AUG 21 1992
DIVISION OF
OIL GAS & MINING

Signature	Title: Consultant for PG & E Resources Company	Date: 8/19/92
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TYPICAL CROSS-SECTION NOTATIONS TYPICAL

SCALE: 1" = 50'
 DATE: 7-25-92
 Drawn By: R.E.H.

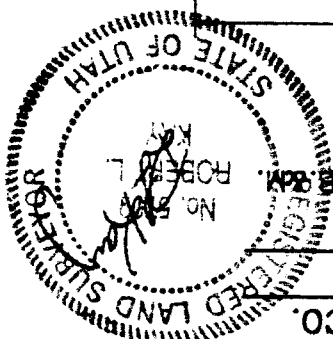


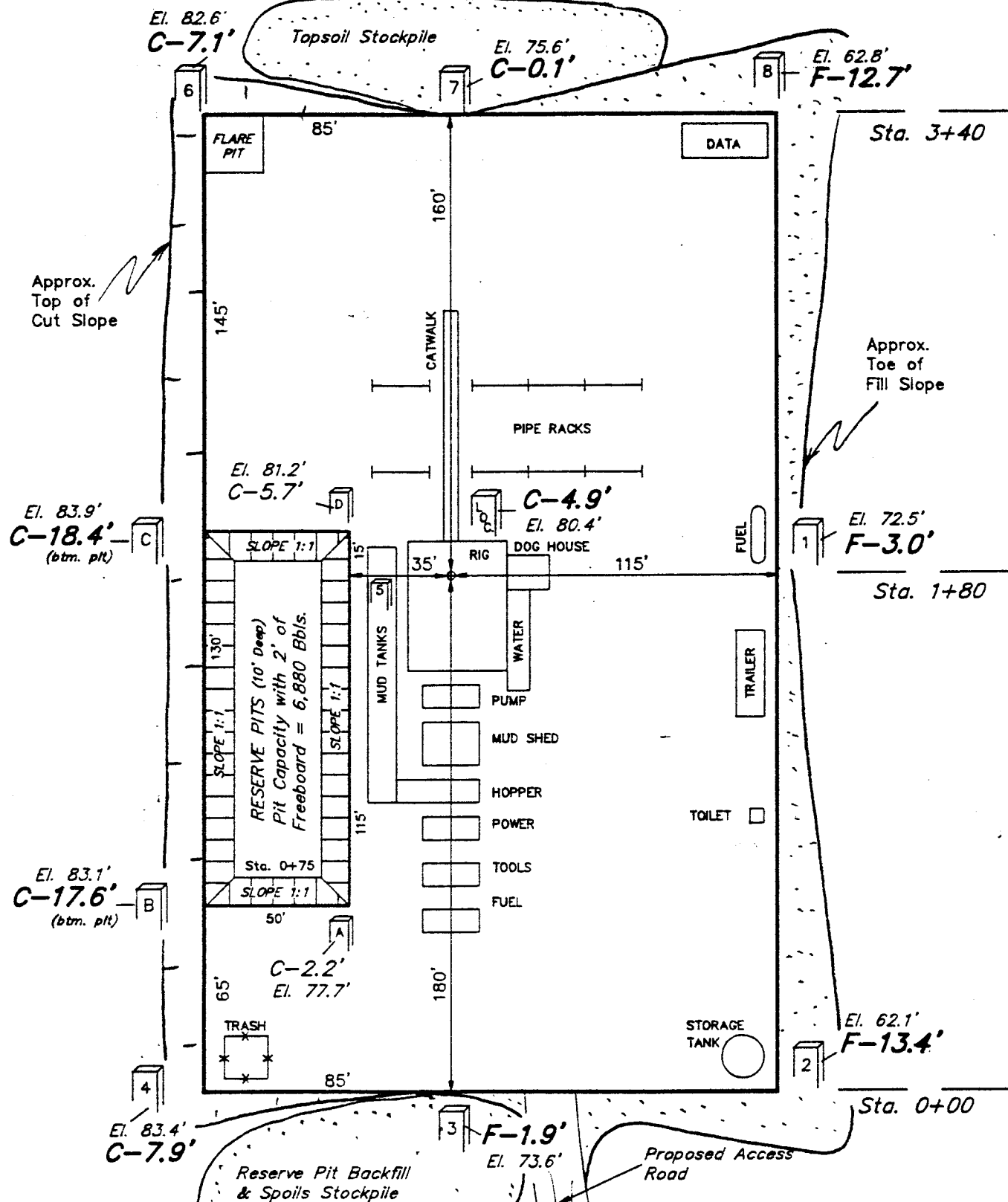
UNGRADED GROUND AT LOC. STAKE = 7780.4'
 GRADED GROUND AT LOC. STAKE = 7775.5'

DIVISION OF
 UTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East
 Salt Lake City, Utah

AUG 21 1992

RECEIVED





APPROXIMATE YARDAGES

CUT		
(6") Topsoil Stripping	=	7,260 Cu. Yds.
Remaining Location	=	7,980 Cu. Yds.
TOTAL CUT	=	9,240 CU.YDS.
FILL	=	6,740 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	=	2,150 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	2,150 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

DATE RECEIVED: / /

OPERATOR: PG & E RESOURCES COMPANY
WELL NAME: FEDERAL 16-15

OPERATOR ACCT NO: N- 0595

API NO. ASSIGNED: 43 - 007 - 30176

LEASE TYPE: FED LEASE NO: UTU-65944
LOCATION: SESE 15 - T12S - R10E CARBON COUNTY
FIELD: WILDCAT FIELD CODE: 001

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond
 (Number federal)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
 (Number +90-91-6 91-000)
☒ RDCC Review (Y/N)
 (Date: 8-26-90)

LOCATION AND SITING:

☐ R649-2-3. Unit: _____
☐ R649-3-2. General.
☒ R649-3-3. Exception.
☐ Drilling Unit.
 Board Cause no: _____
 Date: _____

COMMENTS: No add wells within Sec 15.

STIPULATIONS: _____

CONFIDENTIAL
PERIOD
EXPIRED
ON 9-27-94

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☐

OTHER Coalbed Methane SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR 214/750-3800 6688 N. Central Expressway, #1000
PG & E Resources Company Dallas, TX 75206

3. ADDRESS OF OPERATOR 303/452-8888 13585 Jackson Drive
Permitco Inc. - Agent Denver, CO 80241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1091' FSL and 1043' FEL

At proposed prod. zone

SE SE Sec. 15

AUG 26 1992

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15 miles north of Price, UT

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

approx 1892'

16. NO. OF ACRES IN LEASE

2560

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

approx 2500'

19. PROPOSED DEPTH

4475'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7780' GR

22. APPROX. DATE WORK WILL START*

Immediately upon approval
of this application.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	500'	350 sx or suffic to circ to surf.
5-1/2"	7-7/8"	17#	4475'	425 sx or suffic to cover zones of interest.

PG & E Resources Company proposes to drill a well to 4475' to test the Blackhawk and Star Point Coals for coalbed methane. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

Please be advised that PG & E Resources Company is considered to be the Operator of the above mentioned well. PG & E Resources Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Bond coverage for this well is provided by Bond No. U-187011. The principal is PG & E Resources Company via surety consent as provided for in 43 CFR 3104.2.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Consultant for PG & E Resources Company DATE 8/19/92

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Norman H. Bangerter
Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

September 18, 1992

PG & E Resources Company
6688 N. Central Expressway #1000
Dallas, Texas 75206

Gentlemen:

Re: Federal #16-15 Well, 1091 feet from the south line, 1043 feet from the east line, SE 1/4 SE 1/4, Section 15, Township 12 South, Range 10 East, Carbon County, Utah

Pursuant to Utah Admin. R. 649-3-3, Exception to Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

Page 2
PG & E Resources Company
Federal #16-15 Well
September 18, 1992

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-007-30176.

Sincerely,



R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Bureau of Land Management
J.L. Thompson
WOI1



RECEIVED

SEP 21 1992

DIVISION OF
OIL GAS & MINING

September 18, 1992

Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
Attn: Tammi Searing

Re: PG & E Resources Company
#16-15 Federal 43-007-30176
1091' FSL and 1043' FEL
SE SE Sec. 15; T12S - R10E
Carbon County, Utah

Dear Tammi,

This letter is to serve as our request for an exception to spacing on the above mentioned location.

The above location was staked at non-standard footages in accordance with the rules and regulations of the Division of Oil, Gas & Mining, however, PG & E Resources Company is the lease holder of all acreage within Sections 14 and 15 surrounding the proposed location. Therefore, we request administrative approval for this exception location.

Thank you for your cooperation.

Sincerely,

PERMITCO INC.

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources - Dallas, TX
PG & E Resources - Vernal, UT

Permitco Incorporated
A Petroleum Permitting Company

13585 Jackson Drive Denver, Colorado 80241 (303) 452-8888

CONFIDENTIAL - TIGHT HOLE
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☐ OTHER Coalbed Methane SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR 214/750-3800 6688 N. Central Expressway, #1000
PG & E Resources Company Dallas, TX 75206

3. ADDRESS OF OPERATOR 303/452-8888 13585 Jackson Drive
Permitco Inc. - Agent Denver, CO 80241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1091' FSL and 1043' FEL
At proposed prod. zone SE SE Sec. 15

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
15 miles north of Price, UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) approx 1892'

16. NO. OF ACRES IN LEASE 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. approx 2500'

19. PROPOSED DEPTH 4475'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7780' GR

22. APPROX. DATE WORK WILL START*
Immediately upon approval of this application.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	500'	350 sx or suffic to circ to surf.
5-1/2"	7-7/8"	17#	4475'	425 sx or suffic to cover zones of interest.

PG & E Resources Company proposes to drill a well to 4475' to test the Blackhawk and Star Point Coals for coalbed methane. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

Please be advised that PG & E Resources Company is considered to be the Operator of the above mentioned well. PG & E Resources Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Bond coverage for this well is provided by Bond No. U-187011. The principal is PG & E Resources Company via surety consent as provided for in 43 CFR 3104.2.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Consultant for PG & E Resources Company DATE 8/19/92
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE Assistant District Manager for Minerals DATE SEP 28 1992
CONDITIONS OF APPROVAL, IF ANY: _____

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A

Dated 1/1/80

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

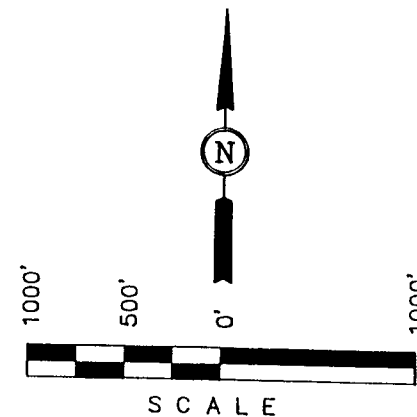
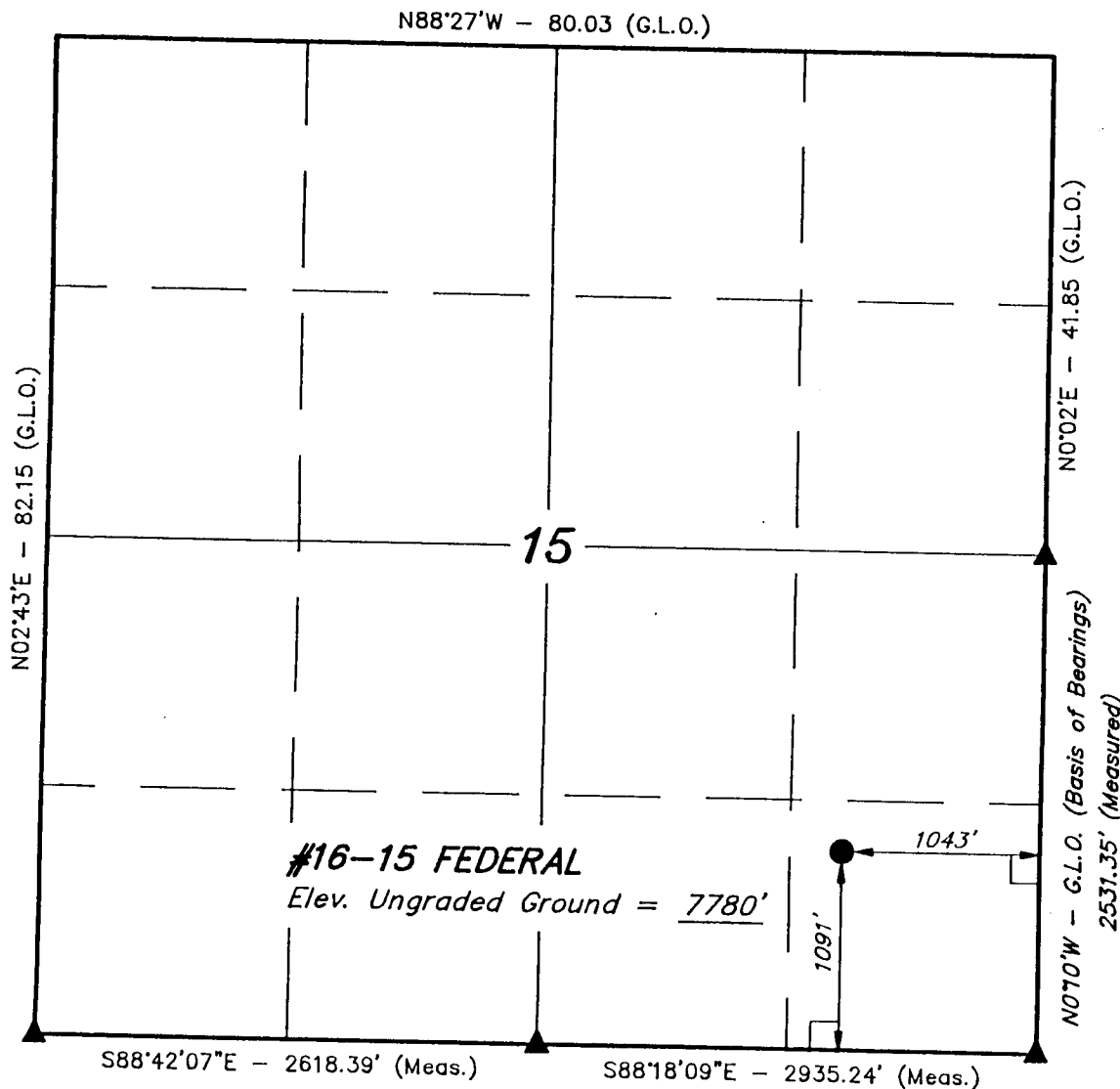
T12S, R10E, S.L.B.&M.

PG&E RESOURCES COMPANY

Well location, #16-15 FEDERAL, located as shown in the SE 1/4 SE 1/4 of Section 15, T12S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

BENCH MARK LOCATED IN THE NE 1/4 OF SECTION 10, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7131 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert J. Hays
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (Brass Caps)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 7-20-92	DATE DRAWN: 7-23-92
PARTY D.A. D.S. J.L.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE PG&E RESOURCES	

PG&E Resources Co.
Federal 16-15
Lease U-65949
SESE Section 15, T.12S., R.10E.
Carbon County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Meridian Oil, Inc is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by WY-2554 (Principal - PG&E Resources Co.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

A. DRILLING PROGRAM

1. There will be no deviation from the proposed drilling program without prior approval from the Assistant District Manager. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.
2. Daily drilling and completion progress reports shall be submitted to the District office on a weekly basis.
3. Due to potential for fresh water contamination, chromates are banned from Federal leases.
4. Surface casing will be set into a geologically competent formation at or near 500 feet.

CONDITIONS OF APPROVAL

1. Existing roads and trails will be upgraded only to allow for adequate drainage measures. Any damage caused to roads during the project will be repaired.
2. Prior to construction of the new access road, an on-site analysis will be conducted to flag the exact route and establish design criteria. The route will be located as identified under proposed action in the EA.
3. Design criteria will be established to meet requirements of BLM's class III road system. Any road will have a maximum travel surface of 18 feet. Total disturbed width will be limited to 25 feet.
4. Dust control on all portions of the route will be required during project construction and during well drilling and may be necessary later if the project reaches economic production.
5. During inclement weather when activity could result in deep rutting of the roads (6 inches or more), or excessive disturbance of the right-of-way, a stop work order may be verbally issued by the Area Manager with a follow-up written order. An authorization to resume work will be required.
6. Flow measurements are to be taken at the head of each produced water discharge line and at each junction and/or discharge point, whether for surface or underground discharge. These will be recorded every 72 hours or more often when necessary, and this data summarized and reported monthly to BLM-PRRA. Any incidence of flow data discrepancy is to be reported to the State Division of Environmental Health and the Price River Resource Area within 48 hours, and resolved within 12 hours of discovery.
7. Summarized results of all analyses of produced water will be sent to the Price River Resource Area, preferably on a monthly basis initially. This is to include baseline data already gathered.
8. Plans will be formulated for long term monitoring of aquifers and springs in the area of proposed development to assess any cumulative impacts that may trigger the need for an Environmental Impact Statement.
9. The dist contractor will be provided with an approved copy of the surface use plan.

CONDITIONS OF APPROVAL

Original 13 COA's are all carried forward into this Addendum.

Applicable Wildlife COA's from EA Ut-066-91-21:

1. In order to protect sage grouse nesting/brood rearing, wintering mule deer and elk: exploration, drilling and other development activity will be allowed only during the period from 7-1 through 11-1.
2. No surface occupancy or other surface disturbance within 330 feet of the center line of perennial streams or within 660 feet of springs.
3. Participate in development and implementation of an offsite mitigation plan to minimize long term impacts to wildlife.

(Added to original COA's in EA Ut-066-91-21:

PG&ER will enter into a Cooperative Agreement with the BLM and the Utah Division of Wildlife Resources to participate in a mitigation fund set up to complete wildlife habitat enhancement projects to compensate for project related wildlife impacts.)

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the Resource Area, Natural Resource Protection Specialist at least 48 hours prior to commencing construction of location.

Spud- The spud date will be reported to the Resource Area Office 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the District Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the Resource Area in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Area Manager is to be notified.

First Production- Should the well be successfully completed for production, the Assistant District Manager, Minerals Division will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled as soon as production testing begins and hydrocarbons reach the surface. This conference should be coordinated through the Resource Area Office.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings and /or samples) will be submitted when requested by the Assistant District Manager.

Venting/Flaring of Gas- NTL-4A allows venting/flaring of gas during the initial well evaluation period not to exceed 30 days or 50 MMcf. Venting/flaring beyond the initial test period threshold must be approved by the District Office.

Produced Water- Produced waste water may be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted to the Assistant District Manager for approval pursuant to NTL-2B.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Assistant District Manager for off-lease measurement, off-lease storage or commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the BLM, Moab District Office prior to initiating plugging operations. Table 1 of this document provides the after-hours phone numbers of personnel who are authorized to give plugging instructions.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Assistant District Manager, Minerals Division within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

Notify Don Stephens, Dean Nyffeler or Mike Kaminski of the Price River Resource Area in Price, Utah, at (801) 637-4584 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

50 feet prior to reaching surface and intermediate casing depths;

3 hours prior to testing BOPE;

If the person at the above number cannot be reached, notify the Moab District Office at (801) 259-6111. If unsuccessful, notify one of the people listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If approval is needed after work hours, you may contact the following:

Dale Manchester, Petroleum Engineer	Office: (801) 259-6111 Home: (801) 259-6239
-------------------------------------	--

Eric Jones, Petroleum Engineer	Office: (801) 259-6111 Home: (801) 259-2214
--------------------------------	--

If unable to reach the above individuals, please call:

Lynn Jackson, Chief, Branch of Fluid Minerals	Office: (801) 259-6111 Home: (801) 259-7990
--	--

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: PG & E 43-007-30176

WELL NAME: FEDERAL 16-15 Carson

Section 15 Township 12S Range 10E County UINTAH

Drilling Contractor GRACE

Rig # 181

SPUDDED: Date 10/16/92

Time

How DRY HOLE

CONFIDENTIAL

Drilling will commence

Reported by BILL OREGON

Telephone #

Date 10/16/92 SIGNED JLT

OPERATOR PG&E Resources Company
ADDRESS 6688 N. Central Expressway
Dallas, TX 75206-3922

OPERATOR ACCT. NO. N 0595

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11440	43-007-30176	Federal #16-15	SE SE	15 13	12S	10E	Carbon	10/19/92	10/19/92
WELL 1 COMMENTS: Spud well on 10/19/92. Entity added 11-3-92. for											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)
A - Establish new entity for new well (single well only)
B - Add new well to existing entity (group or unit well)
C - Re-assign well from one existing entity to another existing entity
D - Re-assign well from one existing entity to a new entity
E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

OCT 30 1992

DIVISION OF
OIL GAS & MINING

Cara Hurst
Signature
Regulatory Affairs
Title
10/27/92
Date
Phone No. (214) 750-3958

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

WILLIAM D. HOWELL
Executive Director

P. O. Drawer
1106

• Price, Utah 84501 • Telephone 637-5444

AREAWIDE CLEARINGHOUSE A-95 REVIEW

14 01 07

NOI___ Preapp___ App___ State Plan___ State Action X Subdivision___ (ASP # 9-831-1)

Other (indicate) _____ SAI Number _____

Applicant (Address, Phone Number):

Oil, Gas and Mining
355 West North Temple
3 Triad Center Ste 350
Salt Lake city, Utah 84189-1203

Federal Funds:

Requested: _____

105, 10E, 15 SESE
43-007-30176

Title:

APPLICATION FOR PERMIT TO DRILL

(PE & G Resources proposes to drill the Federal #16-15 well (wildcat)

☒ No comment on federal lease UTU-65949 in Carbon County, Utah.

☐ See comments below

☐ No action taken because of insufficient information

☐ Please send your formal application to us for review. Your attendance is requested ☐

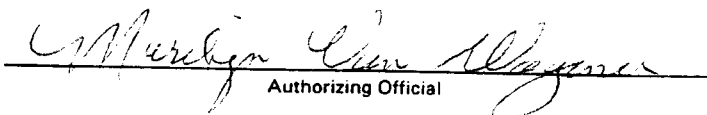
The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:

RECEIVED

NOV 02 1992

DIVISION OF
OIL GAS & MINING


Authorizing Official

10-23-92

Date

REGIONAL CLEARINGHOUSE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other CBM	5. Lease Designation and Serial No. UTU-65949
2. Name of Operator PG&E Resources Company	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No. 6688 N. Central Expressway, Dallas, TX 75206-3922	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1091' FSL & 1043' FEL SE SE, Sec. 13, T12S-R10E	8. Well Name and No. Federal #16-15
	9. API Well No. 43-007-30176
	10. Field and Pool, or Exploratory Area Wildcat
	11. County or Parish, State Carbon, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Well History
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is the Well History for the above referenced well.

RECEIVED

NOV 09 1992

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Ava Hurst Ava Hurst

Title Regulatory Affairs

Date 10/29/92

(This space for Federal or State office use)

Approved by _____

Conditions of approval, if any: _____

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

WELL HISTORY

16-15 Federal
Castlegate Area
Carbon County, Utah

10-03-92	Bldg location & road.
10-04-92	Bldg location & road.
10-05-92	MI & drld conductor hole to 30'. Ran 14" conductor.
10-05-92	Began bldg road & location.
10-06-92	Began bldg loc.
10-07-92	Bldg loc & pit.
10-08-92	Bldg loc.
10-09-92	Bldg loc.
10-10-92	to Bldg loc.
10-12-92	
10-13-92	Loc complete, WO spudder rig.
10-14-92	WO spudder rig.
10-15-92	WO spudder rig.
10-16-92	WO spudder rig.
10-17-92	MI spudder rig, drld 12-1/4" hole to 19', SDFN.
10-18-92	SD.
10-19-92	Drld 12-1/4" hole to 100', booster broke dn, will drill RH & MH & move off.

WELL HISTORY

16-15 Federal
Castlegate Area
Carbon County, Utah

- 10-20-92 Ream 12-1/4" hole to 17-1/2" from surf to 40' for cond. SDFN. Will set conductor today.
- 10-21-92 Ran & set 14" cond @ 40', drld RH & MH, move out spudder rig.
- 10-22-92 Prep to MI Grace Rig #181 today.
- 10-23-92 Drlg 130', 30'/2.5 hrs, MW 8.4, Visc 26, WL N/C. MIRU Grace Rig #181, W&R 40-100', srvy .25° @ 95'. CC \$56,974.
- 10-24-92 Depth 480', WOC, day 1, 350'/17 hrs. Ran 8-5/8", 24#, K-55, ST&C csg & set @ 473'. Cmt w/ 350 sx class G, circ cmt to surf, srvy .75° @ 222'.
- 10-25-92 Drlg 496', day 2, 16'/1 hr, MW 8.4, Visc 26, WL N/C. WOC, NU BOP, attempt to tst - WH leaking @ drlg flange, ND BOP & replace WH. NU & tst BOPE, tst csg to 1500#, TIH & drl out cmt.
- 10-26-92 Drlg 1230', day 3, 734'/20 hrs, MW 8.4, Visc 26, WL N/C. Trip for BHA, srvy 1° @ 497' & 2° @ 1008'. CC \$97,364.
- 10-27-92 Drlg 1970', day 4, 740'/23.5 hrs, MW 8.4, Visc 26, WL N/C. Srvy 1° @ 1505'. CC \$103,214.
- 10-28-92 Drlg 2645', day 5, 675'/18 hrs, MW 8.4, Visc 26, WL N/C. Trip for bit, srvy 2.25° @ 1997' & 3.75° @ 2122. CC \$117,178.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other CBM

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expressway, Dallas, TX 75206-3922

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1091' FSL & 1043' FEL
SE SE, Sec. 13, T12S-R10E

5. Lease Designation and Serial No.
UTU-65949

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.
Federal #16-15

9. API Well No.
43-007-30176

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Carbon, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Spud/ Set Casing

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PG&E Resources spud the above referenced well on 10/19/92. On 24/92 ran 8 5/8", 24#, K-55 casing and set at 473'. Cement with 350 sx Class G.

RECEIVED

NOV 09 1992

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Ava Hurst Title Regulatory Affairs Date 10/27/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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☐ Casing Repair
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☒ Other Completion of Drilling Operations
☐ Change of Plans
☐ New Construction
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☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PG&E Resources Company anticipates finishing the drilling of the above referenced well after November 1, 1992. At present, the anticipated rig release should be November 2, 1992 with rig move on November 3, 1992.

RECEIVED

NOV 09 1992

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Ava Hurst Ava Hurst

Title Regulatory Affairs

Date 10/26/92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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15-

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Federal #16-15

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Attached is the Well History for the above referenced well.

RECEIVED

NOV 23 1992

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Ava Hurst Ava Hurst Title Regulatory Affairs

Date 11/10/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____ Date _____

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WELL HISTORY

16-15 Federal
Castlegate Area
Carbon County, Utah

10-03-92	Bldg location & road.
10-04-92	Bldg location & road.
10-05-92	MI & drld conductor hole to 30'. Ran 14" conductor.
10-05-92	Began bldg road & location.
10-06-92	Began bldg loc.
10-07-92	Bldg loc & pit.
10-08-92	Bldg loc.
10-09-92	Bldg loc.
10-10-92 to 10-12-92	Bldg loc.
10-13-92	Loc complete, WO spudder rig.
10-14-92	WO spudder rig.
10-15-92	WO spudder rig.
10-16-92	WO spudder rig.
10-17-92	MI spudder rig, drld 12-1/4" hole to 19', SDFN.
10-18-92	SD.
10-19-92	Drld 12-1/4" hole to 100', booster broke dn, will drill RH & MH & move off.

WELL HISTORY

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Castlegate Area
Carbon County, Utah

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- 10-22-92 Prep to MI Grace Rig #181 today.
- 10-23-92 Drlg 130', 30'/2.5 hrs, MW 8.4, Visc 26, WL N/C. MIRU Grace Rig #181, W&R 40-100', srvy .25° @ 95'. CC \$56,974.
- 10-24-92 Depth 480', WOC, day 1, 350'/17 hrs. Ran 8-5/8", 24#, K-55, ST&C csg & set @ 473'. Cmt w/ 350 sx class G, circ cmt to surf, srvy .75° @ 222'.
- 10-25-92 Drlg 496', day 2, 16'/1 hr, MW 8.4, Visc 26, WL N/C. WOC, NU BOP, attempt to tst - WH leaking @ drlg flange, ND BOP & replace WH. NU & tst BOPE, tst csg to 1500#, TIH & drl out cmt.
- 10-26-92 Drlg 1230', day 3, 734'/20 hrs, MW 8.4, Visc 26, WL N/C. Trip for BHA, srvy 1° @ 497' & 2° @ 1008'. CC \$97,364.
- 10-27-92 Drlg 1970', day 4, 740'/23.5 hrs, MW 8.4, Visc 26, WL N/C. Srvy 1° @ 1505'. CC \$103,214.
- 10-28-92 Drlg 2645', day 5, 675'/18 hrs, MW 8.4, Visc 26, WL N/C. Trip for bit, srvy 2.25° @ 1997' & 3.75° @ 2122. CC \$117,178.
- 10-29-92 Drlg 3275', day 6, 630'/21 hrs, MW 8.5, Visc 32. Srvy 3.25° @ 2615' & 4° @ 3115'. CC \$124,910.
- 10-30-92 Drlg 3510', day 7, 235'/15.5 hrs, MW 8.8, Visc 33, WL 15.2. Trip for bit. CC \$137,306.
- 10-31-92 Drlg 3820', day 8, 310'/23 hrs, MW 9.0, Visc 34, WL 13.4. Srvy 5.75° @ 3766'.

WELL HISTORY

16-15 Federal
Castlegate Area
Carbon County, Utah

- 11-01-92 Drlg 4135', day 9, 315'/23.5 hrs, MW 9.0, Visc 33, WL 12.8.
- 11-02-92 Depth 4275', day 10, 140'/14.5 hrs, MW 8.8, Visc 35, WL 14.4. Drld to TD, TOH & RU HLS, logging.
CC \$157,229.
- 11-03-92 Depth 4276', cmtg csg, day 11, MW 8.8, Visc 33, WL 13.2. Fin logging, C&C, LD DP, ran 5-1/2", 17#, N-80, LT&C csg, cmtd 1st stage w/ 270 sx 50/50 Poz + add, open DV, circ, cmtg 2nd stage. CC \$211,037.
- 11-04-92 Depth 4188', rig rel, day 12. Cmt 2nd stage w/ 355 sx Hi-Lift + 50 sx class G, circ 17 sx to surf, set slips. RR @ 9:00am 11-3-92. CC \$244,256. DROP UNTIL COMPLETION.



April 20, 1993

RECEIVED

APR 21 1993

DIVISION OF
OIL GAS & MINING

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attention: Mr. Frank Mathews

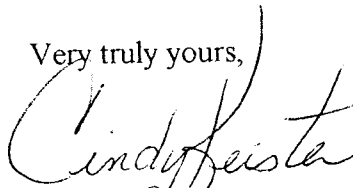
RE: Castlegate CBM Project
Carbon County, Utah

Gentlemen:

Attached is an original and one (1) copy of Form 9 "Sundry Notices and Reports on Wells," completion procedure and a schedule of the wells for the referenced project that are to be dual completions.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours,


Cindy Keister
Regulatory Analyst

CRK/ck

Attachments

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

See Attached Schedule "A"

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

See Attached Schedule "A"

9. API Well No.

See Attached Schedule "A"

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206 214/750-3800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Federal 16-15

See Attached Schedule "A" 42-007-30176 Sec 15, T12S, R10E

12.

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Complete Wells

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PG&E Resources Company requests approval for the attached Completion Procedure for the wells listed on the attached Schedule "A".
PG&E will furnish copies of the daily reports on the individual wells when completion operations commence.

4-22-93
Matthews

RECEIVED

APR 21 1993

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Cathy Feister

Title Regulatory Analyst

Date 04/20/1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CASTLEGATE
SCHEDULE 'A'

WELL NAME	LEASE SERIAL NO.	API NUMBER	Location	Qtr Sec.	Sec	Township	Range	County
Federal 4-13	UTU-65949	43-007-30126	1174' FNL & 1168' FWL	NW NW	13	12S	10E	Carbon
Federal 4-14	UTU-65949	43-007-30138	660' FNL & 450' FWL	NW NW	15	12S	10E	Carbon
Federal 14-13	UTU-65949	43-007-30177	914' FSL & 1677' FWL	SE SW	13	12S	10E	Carbon
Federal 14-14	UTU-65949	43-007-30173	990' FSL & 1649' FWL	SE SW	14	12S	10E	Carbon
Federal 16-14	UTU-65949	43-007-30174	1124' FSL & 964' FEL	SE SE	14	12S	10E	Carbon
Federal 16-15	UTU-65949	43-007-30176	1091' FSL & 1043' FEL	SE SE	15	12S	10E	Carbon

APRIL 20, 1993

CASTLEGATE PROJECT
TYPICAL PRODUCING WELL COMPLETION PROCEDURE
(5-1/2", 17#, N-80 CSG)

1. MIRU WELL SERVICE UNIT.
2. GIH W/RB ON 2-7/8" TBG & D.O. DV TOOL.
3. CIRC HOLE CLEAN - TEST CSG TO 5000 PSI.
4. RUN CBL (IF REQUIRED).
5. PERFORATE LOWER STAR POINT COAL SECTION (TYPICALLY AROUND 4750' FOR ABOUT 60' OF GROSS INTERVAL, APPROX 20-30 HOLES).
6. TREAT LOWER COAL SEAM PERFS DOWN CSG W/1500 GALS 15% FE ACID W/ BALL SEALERS (TO OPEN ALL PERFS).
7. TREAT LOWER COAL SEAM PERFS DOWN CSG W/APPROX 60,000 GALS OF CMHEC CLEAN GEL SYSTEM W/90,000# 20/40 SD & 35,000# OF 100 MESH SD. EXPECT TO TREAT @ 60 BPM X 6000 PSI.
8. FORCE CLOSE FRAC.
9. FLOWBACK LOAD WATER.
10. SET RBP ON WL OVER LOWER COAL SEAM INTERVAL.
11. PERFORATE & TREAT UPPER COAL SEAM INTERVAL (TYPICALLY 4450' +/- SPREAD OVER 200'-300', 35 TOTAL HOLES).
12. DO BD ACID JOB AND FRAC AS BEFORE ON THE LOWER INTERVAL.
13. FORCE CLOSE FRACTURE.
14. FLOWBACK FRAC LOAD UP THE CSG.
15. RETRIEVE RBP W/TBG.
16. RUN MOYNO PRODUCTION PUMPING EQUIPMENT ON 2-7/8" N-80 TBG.
17. COMMENCE DE-WATERING OPERATIONS.

September 24, 1993

Bureau of Land Management
Moab District Office
P. O. Box 970
82 E. Dogwood
Moab, UT 84532

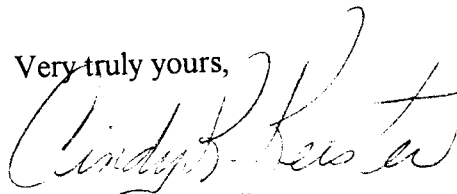
RE: Federal 16-15
Section 15-T12S-R10E
Carbon County, Utah

Gentlemen:

Attached is an original and two (2) copies of Form 3160-4 "Well Completion or Recompletion Report and Log" for the referenced well.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours,



Cindy R. Keister
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Utah Department of Natural Resources
Regulatory File
Central Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

UTU-65949

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Federal

9. WELL NO.

16-15

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Section 15, T12S-R10E

12. COUNTY OR
PARISH

Carbon

13. STATE

Utah

19. ELEV. CASINGHEAD

7791' RKB

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR ☐ Other _____

2. NAME OF OPERATOR

PG&E Resources Company

3. ADDRESS OF OPERATOR

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. LOCATION OF (Report location clearly and in accordance with any State requirements)*

At surface

1091' FSL & 1043' FEL SE/4 SE/4

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO.

43-007-30176

DATE ISSUED

09/28/92

15. DATE SPUDDED

10/19/92

16. DATE T.D. REACHED

11/02/92

17. DATE COMPL. (Ready to prod.)*

08/27/93

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

7791' RKB

20. TOTAL DEPTH, MD & TVD

4275'

21. PLUG, BACK T.D., MD & TVD

4216'

22. IF MULTIPLE COMPL.,
HOW MANY*

23. INTERVALS
DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*

3598' - 3924' Blackhawk

4032' - 4138' Kenilworth

MVDCL

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Spectral Density/Spectral Density Quick Look 12-3-92

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	473'	12-1/4"	350sx Class "G" w/additives	0
5-1/2"	17#	4275'	7-7/8"	270sx 50/50 Poz w/additives	0
		3232'		355sx HiLift w/additives + 50sx Class "G"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	4166'	NA

31. PERFORATION RECORD (Interval, size and number)

3598' - 3924' 0.45" 29 Holes
4032' - 4138' 0.45" 12 Holes

32. ACID, SHOT, FRACTURE, CEMENT

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3598' - 4138'	595 bbls 35# Dual AL + Zirc XL CMHEC + 36450# 100 mesh sd + 63240# 16/30 Ottawa Sd. + 21010# 16/30 resin coated sd

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)					WELL STATUS (Producing or shut-in)	
09/03/93		Hyland Model 200 Progressive Cavity Pump					Shut-In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO	
09/05/93	24	NA	→ 0	45	1140	NA		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)		
NA	120	→	0	45	1140	NA		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Well is currently shut-in waiting on completion of the central processing facility.

TEST WITNESSED BY

Mike McMican

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Candy S. Keister

TITLE

Sr. Regulatory Analyst

DATE

09/24/1993

*(See Instructions and Spaces For Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Blackhawk	3250'	3952'	Natural gas
Kenilworth	3953'	4159'	Natural gas

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Price River ss		2518'
Castlegate ss		2934'
Blackhawk		3250
Kenilworth		3953'
Aberdeen		4160'



December 21, 1993

DEC 27 1993

U.S. DEPARTMENT OF
ENERGY

Bureau of Land Management
Moab District Office
P. O. Box 970
82 E. Dogwood
Moab, UT 84532

RE: Federal 4-13, 4-15, 7-9,
14-13, 14-14, 16-14 & 16-15
Castlegate CBM Project
Sundries For NTL-2B
Carbon County, Utah

Gentlemen:

Attached is an original and two (2) copies of Form 3160-5 "Sundry Notices and Reports on Wells," for the referenced wells.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours,

Cindy R. Keister
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Utah Division of Oil, Gas & Mining
Central File
Regulatory File



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206 214/750-3800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1091' FSL & 1043' FEL
SE/4 SE/4 Sec. 15-T12S-R10E

5. Lease Designation and Serial No.

UTU-65949

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 16-15

9. API Well No.

43-007-30176

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon County, Utah

12.

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other NTL-2B
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PG&E Resources Company requests approval to dispose of produced water from the referenced well into off-lease injection well(s) located in Section 10 and 11 of T12S-R10E, Carbon County, Utah. The produced water will flow via a gathering line to a central processing facility (CPF) where it will be consolidated with other produced water from the field prior to entering the injection header for disposal into one of the four injection wells. A copy of the State of Utah, UIC Permit is included for your review.

14. I hereby certify that the foregoing is true and correct

Signed

Cindy D. Beister Title Sr. Regulatory Analyst

Date 12/20/1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

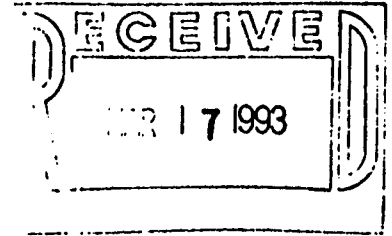


Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340



March 12, 1993

PG&E Resources Company
6688 North Central Expressway
Dallas Texas 75206

Gentlemen:

Re: Conversion of the Jensen 16-10, Jensen 9-10, Shimmin Trust 11-11, and Shimmin Trust 10-11 wells located in Sections 10 and 11, Township 12 South, Range 10 East, Carbon County, Utah, to Water Disposal Wells

In accordance with Utah Admin. R. 649-5-3-3, administrative approval for conversion of the referenced wells to Class II injection wells is granted.

The following actions are necessary to fully comply with this approval:

1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.
2. Conformance with all conditions of the submitted applications.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Sincerely,

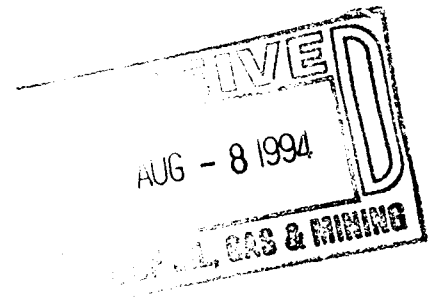
R.J. Firth
Associate Director, Oil and Gas

cc: BLM, Price
R.J. Firth
WUI229

PG&E Resources Company

6688 N. Central Expressway Suite 1000
Dallas Texas 75206-3922
Telephone 214-750-3800
FAX 214-750-3883

August 2, 1994



STATE OF UTAH
Division of Oil Gas & Mining
355 W. North Temple
3 Triad Center - Suite 350
Salt Lake City, UT 84180

ATTENTION: Lisha Cordova

RE: Change of Operator
Castlegate Wells
Carbon County, Utah

Dear Lisha:

Enclosed please find the following documents in connection with the above captioned transfer of operations to Anadarko Petroleum Corporation effective as of August 1, 1994.

- 1) Copies of 8 BLM Sundry Notices (Form 3160-5)
- 2) Originals of 21 Utah Sundry Notices (Form 9)
- 3) Originals of 4 Transfers of Authority to Inject (UIC Form 5)

If additional information is needed in this regard, please contact the undersigned or Mr. L. Steve Hamilton with Anadarko at (405) 475-7000.

Sincerely,

Rejahna Barrow
Sr. Proration Analyst
(214) 750-3120

Enclosures (33)

cc: Mr. L. Steve Hamilton
Anadarko Petroleum Corporation
Oklahoma City, OK

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil
Well

☒ Gas
Well

☐ Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

214/750-3800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1091' FSL & 1043' FEL

SE/4 SE/4 Sec. 15-T12S-R10E

5. Lease Designation and Serial No.

UTU-65949

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 16-15

9. API Well No.

43-007-30176

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon County, Utah

12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other First Sales

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PG&E Resources Company turned the referenced well into the gas sales line on March 7, 1994. The Federal 16-15 is producing at an estimated rate of 53 MCFD & 471 BWPD.

MAR 22 1994

14. I hereby certify that the foregoing is true and correct

Signed

Andy D. Heister

Title

Sr. Regulatory Analyst

Date

03/14/1994

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Note: Please furnish both Operators a copy of approved Sundry.

Form 3160-5
(June 1970)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
UTU-65949

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
Federal 16-15

9. API Well No.
43-007-30176

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Carbon, Utah

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Anadarko Petroleum Corporation

3. Address and Telephone No.
9400 N. Broadway - Suite 700; Oklahoma City, OK 73114 (405) 475-7000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1091' FSL & 1043' FEL, SE/4 SE/4, Sec. 15, T12S, R10E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Change of Operator

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

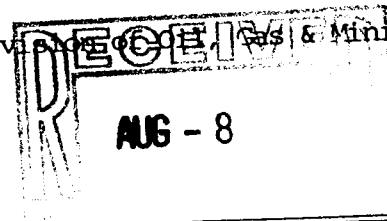
Please be advised that PG&E Resources Company is hereby transferring operations and Anadarko Petroleum Corporation is hereby assuming operations and will be responsible for the above described well effective as of August 1, 1994.

Bond coverage for this well is provided by Anadarko Petroleum Corporation's Nationwide BLM Bond #153571.

PG&E Resources Company hereby agrees to the foregoing transfer.

By: Rijahra Barrow, Sr. Proration Analyst, August 1, 1994

cc: State of Utah; Department of Natural Resources; Division of Oil, Gas & Mining



14. I hereby certify that the foregoing is true and correct

Signed

Title Division Administrative Manager Date August 1, 1994

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

Routing:

1-LEC	7-PL	✓
2-LWP	8-SJ	✓
3-DTS	9-FILE	✓
4-VLC		✓
5-RJF		✓
6-LWP		✓

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-01-94)

TO (new operator)	<u>ANADARKO PETROLEUM CORP.</u>	FROM (former operator)	<u>PG&E RESOURCES COMPANY</u>
(address)	<u>9400 N BROADWAY STE 700</u>	(address)	<u>6688 N CENTRAL EXP #1000</u>
	<u>OKLAHOMA CITY OK 73114-7403</u>		<u>DALLAS TX 75206-3922</u>
	<u>L. STEVE HAMILTON, MGR</u>		<u>REJAHNA BARROW</u>
	phone (405) <u>475-7000</u>		phone (214) <u>750-3922</u>
	account no. <u>N 0035</u>		account no. <u>N 0595</u>

Well(s) (attach additional page if needed):

Name: <u>FEDERAL 6-8/MVDCL</u>	API <u>43-007-30140</u>	Entity: <u>11272</u>	Sec <u>8</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>UTU6594</u>
Name: <u>FEDERAL 7-9/MVDCL</u>	API <u>43-007-30137</u>	Entity: <u>11382</u>	Sec <u>9</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 4-13/MVDCL</u>	API <u>43-007-30126</u>	Entity: <u>11400</u>	Sec <u>13</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>U65949</u>
Name: <u>FEDERAL 4-15/MVDCL</u>	API <u>43-007-30138</u>	Entity: <u>11401</u>	Sec <u>15</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 14-13/MVDCL</u>	API <u>43-007-30177</u>	Entity: <u>11434</u>	Sec <u>13</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 16-14/MVDCL</u>	API <u>43-007-30174</u>	Entity: <u>11435</u>	Sec <u>14</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 14-14/MVDCL</u>	API <u>43-007-30173</u>	Entity: <u>11436</u>	Sec <u>14</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
<u>FEDERAL 16-15/MVDCL</u>	<u>43-007-30176</u>	<u>11440</u>	<u>15</u>	<u>12S</u>	<u>10E</u>	<u>"</u>

OPERATOR CHANGE DOCUMENTATION

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 8-8-94)
- Lee 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 8-8-94)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: ____
- Lee 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lwp 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. 8-15-94
- Lwp 6. Cardex file has been updated for each well listed above. 8-17-94
- Lwp 7. Well file labels have been updated for each well listed above. 8-17-94
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-15-94)
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A/Lee* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A copy of this form has been placed in the new and former operators' bond files.
- ___ 3. The former operator has requested a release of liability from their bond (yes/no) _____. Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- WCS 8/1/94*
N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ☒ 1. All attachments to this form have been microfilmed. Date: August 22 1994.

FILING

- ___ 1. Copies of all attachments to this form have been filed in each well file.
- ___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

940815 Btm/Vernal Aprv. 8-9-94 eff. 8-1-94

Note: Please furnish both Operators a copy of approved Sundry.

Form 3160-5
(June 1970)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Anadarko Petroleum Corporation

3. Address and Telephone No.

9400 N. Broadway - Suite 700; Oklahoma City, OK 73114 (405) 475-7000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1091' FSL & 1043' FEL, SE/4 SE/4, Sec. 15, T12S, R10E

5. Lease Designation and Serial No.

UTU-65949

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Federal 16-15

9. API Well No.

43-007-30176

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Change of Operator

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that PG&E Resources Company is hereby transferring operations and Anadarko Petroleum Corporation is hereby assuming operations and will be responsible for the above described well effective as of August 1, 1994.

Bond coverage for this well is provided by Anadarko Petroleum Corporation's Nationwide BLM Bond #153571.

PG&E Resources Company hereby agrees to the foregoing transfer.

By: Ryehra Barrow, Sr. Proration Analyst, August 1, 1994

cc: State of Utah; Department of Natural Resources; Division of Oil, Gas & Mining

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]

Title

Division Administrative Manager Date August 1, 1994

(This space for Federal or State office use)

Associate District Manager

Approved by

[Signature]

Title

Date

8/9/94

Conditions of approval, if any:

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Anadarko Petroleum Corporation
Well No. Federal 16-15
SESE Sec. 15, T. 12 S., R. 10 E.
Grand County, Utah
Lease U-65949

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Anadarko Petroleum Corporation is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by ELM bond No. ESO-0128 (Principal - Anadarko Petroleum Corporation) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

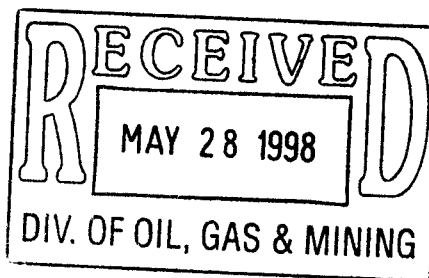
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes		5. Lease Designation and Serial Number <p style="text-align: center;">UTU-65949</p> 6. Indian, Allottee or Tribe Name: 7. Unit Agreement Name: <p style="text-align: center;">CA #UTU-73772</p> 8. Well Name and Number: <p style="text-align: center;">Federal 16-15</p> 9. API Well Number: <p style="text-align: center;">43-007-30176</p> 10. Field and Pool, or Wildcat <p style="text-align: center;">Castlegate</p>
1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: Coalbed Methane		
2. Name of Operator Anadarko Petroleum Corporation		
3. Address and Telephone Number. 17001 Northchase Dr., Houston, Texas 77060 281-875-1101		
4. Location of Well Footages: 1091' FSL & 1043' FEL QQ, Sec., T., R., M.: Sec. 15-T12S-R10E		
County: Carbon State: Utah		

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input checked="" type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ </div> <div style="width: 48%;"> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recomplete <input type="checkbox"/> Perforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Abandon* <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Other _____ </div> <div style="width: 48%;"> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Perforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </div> </div>
Approximate date work will start <u>Summer</u>	Date of work completion _____ Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form. * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see attached "Well Diagram" for all wellbore information and geological markers.



13. Name & Signature Shad Frazier Title Engineer Date 05/28/98

(This space for State use)

**Accepted by the State
of Utah Division of
Oil, Gas and Mining**

Date: 6-3-98

By: [Signature]



Petroleum Corporation

Plugging Procedure

Federal #16-15
Sec. 15-T12S-R10E 1091' FSL & 1043' FEL
Carbon County, Utah

AFE: 501501
WI: 100%
API # 43-007-30176

Purpose: Plug and Abandon Castlegate field

Surf: 8-5/8", 24# K-55 @ 473
Prod: 5-1/2", 17# N-80 @ 4276 (Drift = 4.767")

Wireline: Halliburton, Vernal 801-789-2550
Cementing: Halliburton, Vernal 801-789-2550

Procedure:

1. Notify Don Stephens at the Price office 435-636-3608 and Dan Jarvis 801-538-5340 at least 24 hours prior to commencing operations.
2. RDWH, NUBOP, BD casing pressure. MIRUWL. TIH W/ GR/JB to 3598. POH w/ GR/JB and pick up CIBP. Trip in hole and set CIBP @ +/- 3500 (Do not set in collars). RDWL and move to next location.
3. MIRU Coiled Tubing equipment and cement unit
4. Mix and pump a minimum of 5 sacks class G cement and spot on top of CIBP @ +/- 3598.
5. POH to bottom of surface casing @ 473 and spot a 50 ft. plug.
6. Pull up hole to within 50 ft of surface and spot 50 ft plug.
7. Cut production casing off and mix and pump a 100 ft cement plug between csg and prod csg. NDBOP.
8. Reclaim location and install 4 ft. dead man marker with lease name, number, company name, and legal description.

* all displacement fluid will contain non-corrosive fluid.

Prepared: Shad Frazier 5/22/78

Approved: _____

Castlegate plugging.doc

cc: Steve Pearson
Alan O'Donnell
Kendall Madden
Shad Frazier
Tom Rushing
WF – Federal 16-15, Carbon County, Utah

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL ☐ GAS ☒ OTHER: METHANE

2. Name of Operator

Anadarko Petroleum Corporation

3. Address and Telephone Number.

17001 Northchase Dr., Houston, Texas 77060

4. Location of Well

Footages: 1091' FSL & 1043' FEL

QQ.Sec., T., R., M.: SE SE Sec. 15-T12S-R10E

5. Lease Designation and Serial Number

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Federal 16-15

9. API Well Number:

43-007-30176

10. Field and Pool, or Wildcat

Castlegate Field

County: Carbon

State: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Abandon* | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

06/27/98

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED WELLBORE DIAGRAM AND DETAILED FIELD REPORT.

UNABLE TO SET LOWER CEMENT PLUG AT 50' ABOVE TOP PERFORATION. PLUG WAS SET AS IN AGREEMENT WITH THE STATE OF UTAH, DIVISION OF OIL AND GAS PERMISSION.

13.

Shad Frazier

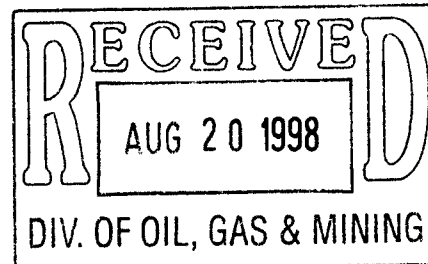
Name & Signature

Title Engineer

Date 08/12/98

(This space for State use only)

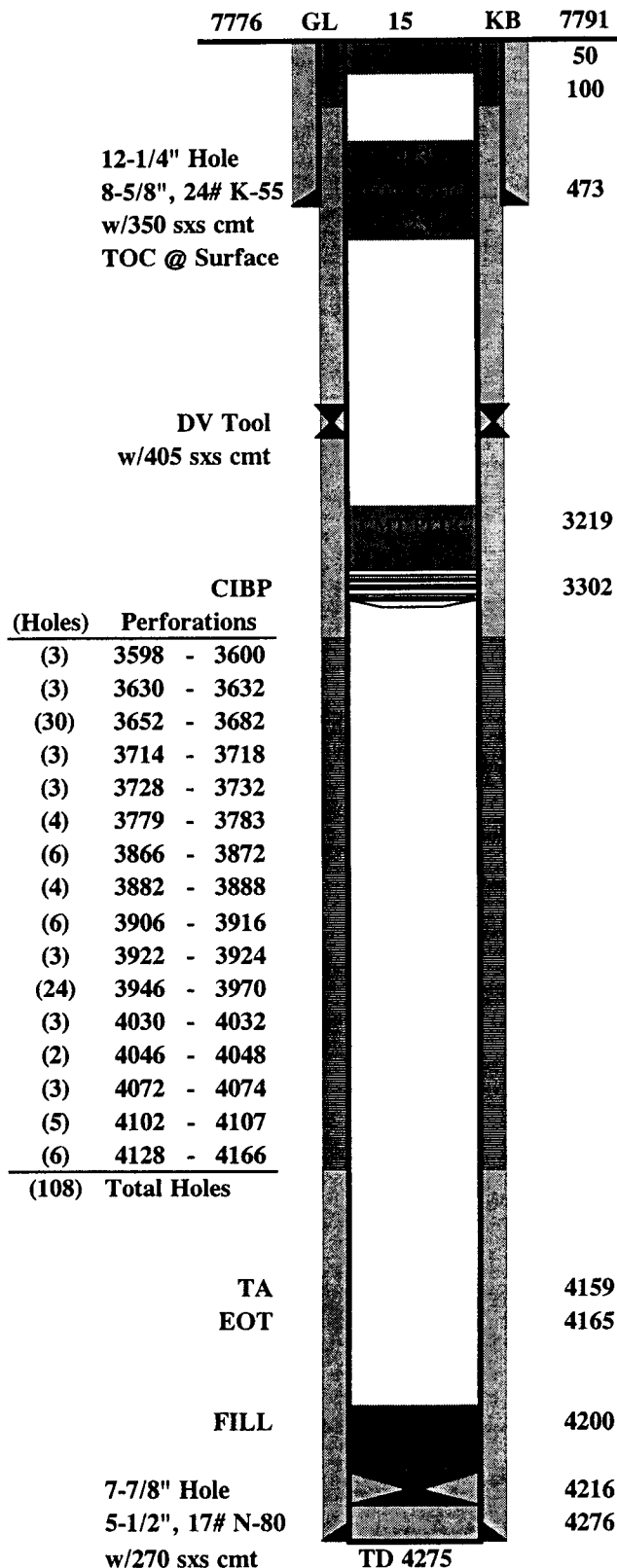
(See Instructions on Reverse Side)



FEDERAL #16-15

SE SE 1091' FSL & 1043' FEL: SEC 15 T12S-R10E
API NO. 43-007-30176

SPUD RIG OFF
SURFACE 10/17/1992 10/24/1992
PRODUCTION 10/25/1992 11/03/1992



WELL WORK HISTORY

08/20/1993 FRAC 3589-4137 w/56M GAL CMHEC, 36M# 100
MESH, 63M# 16/30, 21M# 16/30 RC

08/27/1993 POP w/ HPC 200 PMP

12/18/1993 FLUSHED ROTOR & STATOR

01/07/1994 C/O SHVE FROM 18.5" TO 28", TFF 4179 & CO

03/10/1994 FLUSHED ROTOR & STATOR

04/01/1994 RUN NEW BMW 100-6000 PMP

11/05/1994 RODS PRD, SWOLLEN STATOR, RUN NEW
BMW 60-6000 PMP, TFF @ 4196

04/05/1995 HOLE IN TBG, TFF @ 4196

10/17/1995 FLUSH W/ 1100 BW @ 3 BPM (DWN BCKSIDE)

11/24/1995 BAD STATOR, REPLACED
PERF & RE-PERF & ACIDIZE.

12/20/1995 PARTED RODS @ 3975' FFS.

NOTES:

TUBING BREAKDOWN

2-7/8"	130 JTS
TA	4159
2-7/8"	JTS
3-1/2"	1 JTS
SN	
TAG BAR	4158
2-7/8"	JTS
NC	4163
EOT	4165

ROD BREAKDOWN

PONIES	4'
1"	4075'
7/8"	
3/4"	
1"	
1.5"	
PUMP	PC
BMW 100-5200	

DEVIATION ANGLE

497	1
1008	2
1505	1
1997	2.3
2122	3.8
2615	3.3
3115	4
3766	5.8
4275	6

FORMATION

PRICE RIVER	2518
CASTLEGATE	2934
BLACKHAWK	3250
KENILWORTH	3953
ABERDEEN	4160
SPRING CANYON	

TOP

LAST REVISED: 07/21/1998

COIL TUBING JOB LOG 4191

DATE 6-27-98	PAGE NO.
------------------------	----------

CUSTOMER Anadacka	WELL NO. 16-15	LEASE Federal	JOB TYPE P 1A	TICKET NO. 433756
-----------------------------	--------------------------	-------------------------	-------------------------	-----------------------------

TIME	WELL NO.	LEASE	JOB TYPE	TICKET NO.
08:00				
08:25				
08:35				
08:50				
09:25				
09:45	1.0	2	1590	0
09:50	1.0	93	2700	0
10:45				
11:07	1.0	2.5	2400	
11:10	1.0	7		
11:33	.5	1.2		
12:00	.5	5		
12:11				
12:45				
12:57				
13:02	.5	3.5		
13:29	.5	5		
13:29				

011 Loc. Rig 24p
 Soft Mudding
 R.T.H.
 2 JT @ 1500'
 Tag @ 3302'
 Start C.M.T. Down C.T.
 Start Poz Down C.T.
 Have Returns
 Start C.M.T. Thru C.T. (523'-423')
 Start Poz Thru C.T.
 Start C.M.T. Thru C.T. (50'-0')
 Start Displacement
 C.M.T. @ Surface per pair to
 rig up on Back side.
 R.T.H. Back side
 Tag @ 1000'
 Start C.M.T. Back side plug from
 100'-0' thru C.T.
 Start Displacement Thru C.T.
 C.M.T. @ Surface, Rig 9 C.T. Down
 move to area box

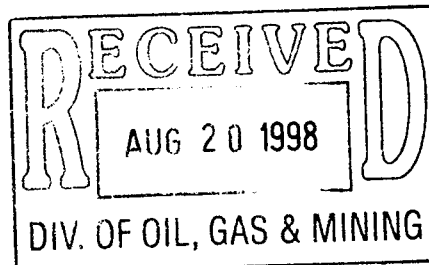
Thank You



August 13, 1998

State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84414-5801

Re: State Form 9
Castlegate Field
Carbon County, Utah



Gentlemen:

Please find enclosed, Sundry Notices and Reports on Wells (Form 9) outlining the plugging and abandoning procedures performed for the following wells:

SHIMMIN TRUST 1 <i>fr SGW to PA</i>	JENSEN 11-15 <i>fr SGW to PA</i>
SHIMMIN TRUST 2 " " " "	JENSEN 16-9 " " " "
SHIMMIN TRUST 3 " " " "	JENSEN 16-10 " " " "
SHIMMIN TRUST 4 " " " "	FEDERAL 4-13 <i>fr SGW to PA</i>
SHIMMIN TRUST 5 " " " "	FEDERAL 4-15 " " " "
SHIMMIN TRUST 10-11 <i>fr WDW to PA</i>	FEDERAL 6-8 " " " "
SHIMMIN TRUST 11-11 <i>fr SGW to PA</i>	FEDERAL 7-9 " " " "
SHIMMIN TRUST 12-12 " " " "	FEDERAL 14-13 " " " "
SHIMMIN TRUST 14-12 " " " "	FEDERAL 14-14 " " " "
JENSEN 5-10 <i>fr SGW to PA</i>	FEDERAL 16-14 " " " "
JENSEN 7-15 " " " "	FEDERAL 16-15 " " " "
JENSEN 9-10 " " " "	STATE 2-16 <i>fr SGW to PA</i>
JENSEN 11-10 " " " "	STATE 9-16 " " " "

Should you have any questions or require additional information, please contact me at (281) 873-1276.

Best regards,

ANADARKO PETROLEUM CORPORATION

Gail A. Rupert
Engineering Technician

Enclosures

cc: Bureau of Land Management
Moab District Office
P.O. Box 970
Moab, Utah 84532

Bureau of Land Management
Price River Resources Area
900 North, 700 East
Price, Utah 84501

GAR
SMF
TRC - Well File

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-65949
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: FED 16-15
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1091 FSL 1043 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 15 Township: 12.0S Range: 10.0E Meridian: S		9. API NUMBER: 43007301760000
PHONE NUMBER: 307-752-1169 Ext		9. FIELD and POOL or WILDCAT: CASTLEGATE
COUNTY: CARBON		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/27/1998	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input checked="" type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: _____	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr McGee respectfully requests to P&A the following well location. Attached is the P&A Procedure. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 29, 2010		
NAME (PLEASE PRINT) Emily Carrender	PHONE NUMBER 720 929-6282	TITLE Operations Specialist I
SIGNATURE N/A	DATE 6/24/2010	



PROSPECT		Cattle Gate		Edwards 16-15		SEC	TWP	RNG	COUNTY	STATE
PAID		3302		WELL P & H						
TODAYS OPERATION		PERFS		TBC		PKR/ANCHOR		CONTRACTOR		
DAYS		2		3598-4166		CIGP 3302		5 1/2" 12" W-80, 4275'		CONTRACTOR
YESTERDAYS OPERATIONS										

MIRA 7460 1 1/4" coil rig unit - R1H, log C16P @ 3302' - spot
83' unit plug from 3302' to 3219' - size well w/ 9" gal pos. mud - spot
100' unit plug from 518 casing shoe @ 473' plug from 523' to 423' - spot
50' unit plug from 50' to surface in 5 1/2" casing.
cut off well head - R1H w/ 1 1/4" coil rig to 100' - spot 100' unit
plug to surface between 85' + 5 1/2" casing - 40 coil rig unit.
well on P & H marker

well P & H, 2:00 PM, 6-27-98

COST DETAIL	DAILY	CUMULATIVE	COST DETAIL	DAILY	CUMULATIVE
Location & Roads			Casing		
Rig			Tubing		
Downhole Equipment			Wellhead		
Water			Production Equipment		
Tanks			Flowmeter	800	930
Supervision	561	561	Mud coil rig	3918	3918
BOP Rental					
Wireline		2001			
Trucking	1460	1460			
Treatment					
Surface Equipment Rental					
Cement	3725	3725	TOTAL COSTS	9464	11,595

WELL SITE REPRESENTATIVE
R. D. Jeff
DATE 6-28-98

RECEIVED June 24, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Coalbed Methane <input type="checkbox"/> Other	2. Name of Operator Anadarko Petroleum Corporation	3. Address and Telephone No. 17001 Northchase Dr., Houston, TX 77060 (281) 875-1101	4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1091' FSL & 1043' FEL Sec. 15-T12S-R10E
7. If Unit or CA, Agreement Designation Carbon County, Utah			
8. Well Name and No. Federal 16-15			
9. API Well No. 43-007-30176			
10. Field and Pool, or Exploratory Area Castlegate			
11. County or Parish, State Carbon County, Utah			

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUEMISION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> Recorepletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other
Describe Proposed or Complete Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) (Note: Report results of multiple completion on Well Completion or Recorepletion Report and Log form)	

See attached document for plugging procedures in accordance to plugging guidelines and the "Wellbore Diagram" for all wellbore information and geological markers.

218P at 6-2-98

RECEIVED
JUN 24 2010
JUN 23 11 3 52
BUREAU OF LAND MANAGEMENT

14. I hereby certify that the foregoing is true and correct.

Signed: *[Signature]*
Title: Engineer
Shad Frazier

(This space for Federal or State office use)

Approved by: *[Signature]*
Title: Assistant Field Manager
Resource Management

Date: 05/28/98

CONDITIONS OF APPROVAL ATTACHED

APPROVED BY: *[Signature]* 6/1/98

Title: 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

RECEIVED June 24, 2010

Plug and Abandon
Sec. 15, T. 12 S., R. 10 E.
Well No. Federal 16-15
Anadarko Petroleum Corporation
Lease UTU55949
Carbon County, Utah

CONDITIONS OF APPROVAL

1. Spacer fluid shall be 9 pounds per gallon or heavier.
2. Procedure #5 (Surface casing shoe plug). Increase the cement volume of this plug to cover 100 feet: 50 feet above and 50 feet below the casing shoe at 473'.
3. Upon finishing the plugging procedures, submit a subsequent report of abandonment (sundry notice) which details the work that was done.



AFE: 501501
WI: 100%
API # 43-007-30176

Federal #16-15
Sec. 15-T12S-R10E 1091' FSL & 1043' FEL
Carbon County, Utah

Purpose: Plug and Abandon Castlegate field

Surf: 8-5/8", 24# K-55 @ 473
Prod: 5-1/2", 17# N-80 @ 4276 (Drit = 4.76")

Wireline: Halliburton, Vernal 801-789-2550
Cementing: Halliburton, Vernal 801-789-2550

Procedure:
1. Notify Don Stephens at the Price office 435-636-3608 and Dan Jarvis 801-538-5340 at least 24 hours prior to commencing operations.

2. RDWH, NUBOP, BD casing pressure, MIRUWL, TH W/ GR/JB to 3598, POH w/ GR/JB and pick up CIBP. Trip in hole and set CIBP @ +/- 3500 (Do not set in collars). RDWL and move to next location.

3. MRU Coiled Tubing equipment and cement unit
4. Mix and pump a minimum of 5 sacks class G cement and spot on top of CIBP @ +/- 3598.

5. POH to bottom of surface casing @ 473 and spot a 50 ft. plug.
6. Pull up hole to within 50 ft of surface and spot 50 ft plug.

7. Cut production casing off and mix and pump a 100 ft cement plug between csg and prod csg. NUBOP.
8. Reclaim location and install 4 ft. dead man marker with lease name, number, company name, and legal description.

* all displacement fluid will contain non-corrosive fluid.

Approved: _____

Castlegate plugging.doc

cc: Steve Pearson

Alan O'Donnell

Kendall Madden

Shad Frazier

Tom Rushing

WF - Federal 16-15, Carbon County, Utah

RECEIVED June 24, 2010

FEDERAL #16-15

SE 1/4 1091' FSL & 1043' FEL: SEC 15 T12-R10E
API NO. 43-007-30176

SPUD RIG OFF
SURFACE 10/17/1992 10/24/1992
PRODUCTION 10/25/1992 11/03/1992

WELL WORK HISTORY

08/20/1993 FRAC 3589-4137 W/56M GAL CMHEC, 36M# 100
MESH, 63M# 16/30, 21M# 16/30 RC
08/27/1993 POP W/ HPC 200 PMP
12/18/1993 FLUSHED ROTOR & STATOR
01/07/1994 C/O SHVE FROM 18.5' TO 28', TFF 4179 & CO
03/10/1994 FLUSHED ROTOR & STATOR
04/01/1994 RUN NEW BMW 100-6000 PMP
11/05/1994 RODS PRD, SWOLLEN STATOR, RUN NEW
BMW 60-6000 PMP, TFF @ 4196
04/05/1995 HOLE IN TBG, TFF @ 4196
10/17/1995 FLUSH W/ 1100 BW @ 3 BPM (DOWN BACKSIDE)
11/24/1995 BAD STATOR, REPLACED
12/20/1995 PARTED RODS @ 3975' FFS.
PERF & RE-PERF & ACIDIZE.

12-1/4" Eole
8-5/8", 21# JK-55
W/350 SXS CNT
TOC @ Surface

DV Tool
W/405 SXS CNT

7776 GL 15 KB 7791

3272

473

(Holes)	Perforations
(3)	3598 - 3610
(3)	3630 - 3632
(30)	3652 - 3682
(3)	3714 - 3718
(3)	3728 - 3732
(4)	3779 - 3783
(6)	3866 - 3872
(4)	3882 - 3888
(6)	3906 - 3916
(3)	3922 - 3924
(24)	3946 - 3970
(3)	4030 - 4032
(2)	4046 - 4048
(3)	4072 - 4074
(5)	4102 - 4107
(6)	4128 - 4166
(108)	Total Holes

TA
EOT
FTL

7-7/8" Hole
5-1/2", 17# N-80
W/270 SXS CNT

TD 4275

4159
4165
4200
4216
4276

DEVIATION ANGLE

1	497
2	1008
1	1505
2.3	1997
3.8	2122
3.3	2615
4	3115
5.8	3766
6	4275

2-7/8"	130 JTS
TA	4159
2-7/8"	JTS
3-1/2"	1 JTS
SN	
TAG BAR	4158
2-7/8"	JTS
NC	4163
EOT	4165

TUBING BREAKDOWN

NOTES:

PONES	4'
7/8"	
3/4"	
1"	
1.5"	
PUMP	
PC	
BMW 100-5200	

ROD BREAKDOWN

FORMATION	TOP
PRICE RIVER	2518
CASTLEGATE	2934
BLACKHAWK	3250
KENILWORTH	3953
ABERDEEN	4160
SPRING CANYON	

LAST REVISED: 05/28/1998

Utah Wellbores.xls